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November 10, 2010

Ms. Erin Brittain
Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Quarterly Monitoring Progress Report – 3rd Quarter 2010**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Ms. Brittain:

This *Quarterly Monitoring Progress Report* is being submitted to the Indiana Department of Environmental Management (IDEM) by MUNDELL & ASSOCIATES, INC. (MUNDELL), on behalf of AIMCO, to summarize further site characterization, remediation activities and quarterly monitoring performed from July 1 through October 31, 2010. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule.

GROUNDWATER MONITORING NETWORK SAMPLING

On July 21 - 22, 2010, quarterly groundwater sampling of the existing twenty-five (25) monitoring wells established with IDEM, and the two (2) additional monitoring wells on the Floral Park Cemetery property was performed. The following constitute this quarterly groundwater monitoring network:

- 1) *Twenty-three (23) MUNDELL monitoring wells:* MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09S, MMW-P-09D, MMW-P-10S, MMW-P-10D

- and MMW-C-01 and MMW-C-02 (MUNDELL wells on Floral Park Property).
- 2) Two (2) Keramida/Environ monitoring wells: MW-168D and MW-171D.

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the above listed monitoring well network.

During this investigation, monitoring wells MMW-10S and MMW-P-10D were found to contain black sediment and flakes throughout the water column. Black precipitate in groundwater can indicate the presence of iron reducing bacteria. Limited ferrous iron analyses following the initial CAP 18TM injection in August 2007 indicate slight elevations of ferrous iron concentrations within these monitoring wells, suggesting the black precipitate observed is potentially the byproduct of reductive biotransformation within the aquifer.

All monitoring well sampling, survey and construction data are provided in **Tables 1, 2 and 2a**, respectively, and the potentiometric map is illustrated in **Figure 1**.

The wells were sampled utilizing the dedicated bladder pumps for uniform low-flow purging and sample collection. The Troll 9500 multi-parameter meter (used inline with the dedicated bladder pumps) logs geochemical parameters (temperature, pH, dissolved oxygen, conductivity and oxidation reduction potential), which help remove a minimal but sufficient amount of water (indicated by stabilization of geochemical parameters) to sample the well. The Troll helps assess the geochemical parameters as evidence of conditions naturally conducive to natural attenuation existing in the aquifer. All excess purge water was transported to 55-gallon drums located at the Site for proper disposal. In accordance with IDEM guidelines, the contents in each drum were then identified with a label describing them as non-hazardous materials.

As agreed in the October 29th, 2008, meeting with IDEM and detailed in the *RWP Addendum* November 2008, groundwater samples were submitted to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana, for the shorter list of VOC analysis via U.S. EPA SW-846 Method 8260, along with appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD). Groundwater samples were transferred into three 40-milliliter glass sample vials containing the preservative hydrochloric acid (HCl). Groundwater sample vials were sealed in plastic bags and placed in a cooler containing ice and delivered to Pace using appropriate chain-of-custody protocol for laboratory tests. Pace laboratory certificates of analysis for the groundwater samples analyzed are presented in **Appendix A**.

Baseline groundwater geochemical parameters (pH, dissolved oxygen, oxidation-reduction potential, conductivity and temperature) were measured with a low-flow cell and multi-parameter water quality probe in the post-injection period to evaluate whether aquifer conditions continue to be favorable for natural attenuation of the indicator compounds at the Site. The aquifer is currently under anaerobic conditions which support the reductive dechlorination process.

Aquifer chemical parameter testing has been performed in the past and will be scheduled based on the observed response and remedial status in each plume area going forward. Additional aquifer parameters including methane, ethene and ethane are periodically analyzed to evaluate indicator compound breakdown and redox-sensitivity. In addition, volatile fatty acids (VFA) will also be tested periodically to evaluate substrate distribution and lifetime duration of the product. These samples will be collected in select monitoring wells representative of each plume to monitor the presence of residual CAP 18TM in the aquifer and to provide additional monitoring of aquifer conditions.

U.S. EPA SPLIT SAMPLING EVENT

In addition to the regularly scheduled quarterly groundwater sampling event, a split-sampling event with the United States Environmental Protection Agency (U.S. EPA) was conducted on July 7, 2010. The sampling event included the following monitoring well locations:

- 1) *One (1) MUNDELL monitoring well: MMW-P-01.*
- 2) *Two (2) Keramida/Environ monitoring wells: MW-165D and MW-170D.*

The wells were sampled by U.S. EPA subcontractors utilizing a portable bladder pump for uniform low-flow purging and sample collection. A multi-parameter meter was used inline with the portable bladder pump to log geochemical parameters, which help remove a minimal but sufficient amount of water (indicated by stabilization of geochemical parameters) to sample the well. All excess purge water was transported to 55-gallon drums located at the Site for proper disposal. In accordance with IDEM guidelines, the contents in each drum were then identified with a label describing them as non-hazardous materials.

The MUNDELL split groundwater samples were submitted to Pace for complete VOC analysis via U.S. EPA SW-846 Method 8260, along with one duplicate (DUP) sample. Groundwater samples were transferred into three 40-milliliter glass sample vials containing the preservative hydrochloric acid (HCl). Groundwater sample vials were sealed in plastic bags and placed in a cooler containing ice and delivered to Pace using appropriate chain-of-custody protocol for laboratory tests. Pace laboratory certificates of analysis for the groundwater samples analyzed are presented in **Appendix A**.

In addition, split groundwater samples from the Keramida/Environ monitoring well locations were submitted to Microseeps, Inc. (Microseeps), in Pittsburgh, Pennsylvania, for complete VFA analysis via Method AM23G. Groundwater samples were transferred into two 40-milliliter glass sample vials containing the preservative trisodium phosphate. Groundwater sample vials were sealed in plastic bags and placed in a cooler containing ice and delivered to Microseeps using appropriate chain-of-custody protocol for laboratory tests. Microseeps laboratory certificates of analysis for the groundwater samples analyzed are presented in **Appendix A**.

GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical testing results for this quarter are summarized in **Table 3** and presented on **Figure 2**. One (1) out of the twenty-eight (28) monitoring wells sampled this quarter (MMW-1S) showed PCE concentrations exceeding the IDEM RISC Industrial Default Closure Level (IDEM RISC IDCL). Five (5) monitoring wells (MMW-8S, MMW-10S, MMW-P-02, MMW-P-03D, and MMW-C-01) demonstrated PCE concentrations exceeding the IDEM RISC Residential Default Closure Level (IDEM RISC RDCL) but below the IDCL. The historical groundwater results are included in **Table 4**. The historical indicator compounds trends in groundwater are presented in **Figure 3**.

None of the monitoring wells showed TCE concentrations exceeding the IDEM RISC IDCL, with two (2) monitoring well (MMW-1S and MMW-10S) exhibiting a level exceeding the RDCL, but below the IDCL.

Two (2) monitoring well (MMW-9S and MMW-P-01) showed cis-1,2-DCE concentrations exceeding the IDEM RISC IDCL. Twelve (12) monitoring wells (MMW-10S, MMW-11S, MMW-11D, MMW-13D, MMW-14D, MMW-P-02, MMW-P-03D, MMW-P-04, MMW-P-07, MMW-P-08, MMW-P-10D, and MW-165D) exhibited cis-1,2-DCE concentrations exceeding the RDCL, but below the IDCL. Five (5) monitoring wells (MMW-8S, MMW-12S, MMW-P-05, MW-168D, and MMW-C-01) exhibited cis-1,2-DCE concentrations under IDEM RISC RDCL but above the detection limit.

Twenty-four (24) monitoring wells (MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09D, MMW-P-10S, MMW-P-10D, MW-165D, MW-168D, MW-170D, and MMW-C-01) showed vinyl chloride concentrations exceeding the IDEM RISC IDCL.

The deep monitoring wells MMW-13D and MMW-14D exhibited significant cis-1,2-DCE and exceedances above the RDCL and vinyl exceedances above IDCL during this quarter (see **Figure 3**). Since these wells have been purposefully located upgradient of **Source Areas B** and **C**, the impacts observed in these areas demonstrate groundwater impacts that are attributable to other upgradient, off-site sources and not to Michigan Plaza. As seen on **Figure 3** the indicator compound concentrations at these deep, upgradient wells can be considered as “background levels” defined as the concentration of contaminants from the Genuine source coming into the deeper aquifer in this area. These indicator compound levels aid in discerning between the Michigan Plaza source impacts and the Genuine Site impacts, and will ultimately be used to evaluate the target cleanup levels for the deeper aquifer at the Site.

During the July 7, 2010, split sampling event with the U.S. EPA, analyses for VFAs were completed at three monitoring well locations: MW-165D, a Keramida/Environ well located upgradient of the Michigan Plaza Apartments; MMW-P-01, a MUNDELL well located downgradient of **Source Area B**; and MW-170D, a Keramida/Environ well located southwest of

Michigan Plaza. VFAs typically stimulate reductive dechlorination processes and can be introduced into the subsurface via CAP 18TM injections (an enhanced, food-grade vegetable oil product). VFAs were detected only in MMW-P-01, located immediately downgradient of **Source Area B** and previous CAP 18TM injection locations. Groundwater samples collected from MW-165D and MW-170D did not have VFAs present indicating the vinyl chloride impacts observed in MW-165 are not associated with the vinyl chloride and VFAs generated as a result of the dechlorination process from CAP 18TM injection at the Plaza. The VFA analytical results are included in **Table 5**.

IN-SITU BIOREMEDIATION PROGRESS

Based upon the 1) extent and severity of the indicator compound concentrations and trends, 2) site-specific operational constraints and uses, 3) geochemical and physical characteristics of the aquifer, and 4) economic factors, in-situ bioremediation with CAP 18TM, followed by Monitored Natural Attenuation (MNA) is the selected remediation technology for the Site for treating groundwater, as detailed in the *RWP*. The initial CAP 18TM injection was performed in all the three source areas in August 2007 using a direct push Geoprobe system. Locations and spacing of the injection points were designed to address the sewer line related *Chemical Source Areas* and provide injection locations in each *Chemical Source Area* that upon migration downgradient in the direction of groundwater flow, are expected to remediate the most significant groundwater impacts. A booster CAP18TM injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations have begun to stabilize or are decreasing at a slow rate. During this quarter, no additional CAP 18TM injections have been performed; however, technical evaluation of the need for a final injection is being completed for selected chemical source areas.

Indicator Chemical Trends

A group of monitoring wells from the sampling network is utilized to monitor dissolved indicator compound concentration trends over time at various locations within the heart of the three *Chemical Source Areas*. Graphs of historical PCE, TCE, cis-1,2-DCE and vinyl chloride concentrations are developed for the following monitoring wells:

Source Area A: MMW-P-03D

Source Area B: MMW-P-01, MMW-P-07, MMW-P-08 and MMW-8S

Source Area C: MMW-1S, MMW-9S and MMW-10S

Figures 3 and 4 illustrate the changes in the chlorinated solvents concentrations demonstrating reductive dechlorination as a result of the CAP 18TM remediation implementation. To illustrate the effect of the CAP 18TM injection on dissolved chlorinated concentrations, injection dates are included on the graphs.

PCE impacts in **Source Area A** (MMW-P-03D) appear to have a decreasing trend with a PCE concentration of 6.6 ug/L. Vinyl chloride and cis-1,2-DCE concentrations demonstrated

increasing trends after the second round of CAP 18TM injection in February 2009. These trends continued during the third quarter 2010 and are indicative of continued reductive dechlorination (indicating further breakdown of parent compounds) in **Source Area A**.

PCE and TCE impacts in the **Source Area B** (MMW-P-01, MMW-P-07, MMW-P-08, and MMW-8S) have displayed decreasing trends. Vinyl chloride concentrations have decreased at MMW-P-01, MMW-P-07 and MMW-P-08, while cis-1,2-DCE has decreased during the last two quarters in MMW-P-01 and MMW-P-07. Analytical data at all four well locations indicate that reductive dechlorination processes appear to have slowed. PCE was detected solely at MMW-8S at a concentration slightly above IDEM RISC IDCLs (6.2 ug/L).

Monitoring well locations near **Source Area C** (MMW-1S, MMW-9S and MMW-10S) appear to indicate downgradient migration of CAP 18TM and slowing of previously inferred reductive dechlorination processes. MMW-1S and MMW-10S show increased concentrations of PCE and TCE above IDEM RISC IDCLs. MMW-9S and MMW-10S have detectable concentrations of cis-1,2-DCE and vinyl chloride. Lack of daughter products nearest **Source Area C** (MMW-1S) coupled with a downgradient increase in TCE concentrations and minimal cis-1,2-DCE and vinyl chloride concentrations indicate reductive dechlorination processes have slowed, and dechlorination has not been fully completed in the Source Area . The CAP 18TM has likely migrated downgradient of this location and, as such, accelerated reductive dechlorination is no longer being supported. MUNDELL is considering an additional CAP 18TM injection that will provide additional support to reductive dechlorination processes that have slowed or ceased in some areas immediately downgradient of **Source Area C**. The analytical results are attached in **Appendix A**.

Thus, an overall decreasing trend in PCE and TCE concentrations (in some areas achieving nondetectable concentrations), and an increase in the daughter product concentrations (indicating breakdown of parent compounds via reductive dechlorination) has occurred significantly since the injections in the **Source Areas A, B and C** in August 2007 and February 2009. Because these processes appear to have slowed over the last several quarters, additional CAP 18TM injections are under consideration.

SOIL GAS MONITORING

A soil gas sample (taken via summa canister) was collected from MGW-5 on July 23, 2010, and analyzed for VOCs via U.S. EPA Method TO-15. The soil gas monitoring well showed a spike in contaminant concentrations during the July 2010 sampling round which could be attributed to subsurface changes resulting from increased reductive dechlorination due to the 2nd CAP 18TM injection event in February 2009. This soil gas well shows impacts exceeding the U.S. EPA (for PCE, TCE, cis-1,2-DCE and vinyl chloride) and IDEM 2006 and 2010 (PCE and TCE) soil gas screening levels. Considering the worst case scenario (an exposure duration of 25 years) yields a conservative comparison to actual risks to human health, as this location has been a parking lot since the initial development of the land. Furthermore, the nearest inhabited indoor spaces are all currently being addressed with air mitigation systems. Therefore, exposure

pathways are significantly being reduced. MUNDELL will sample this gas well (MGW-5) again in the first quarter 2011, to monitor soil gas trends in this area, particularly since it is located in the heart of **Source Area B**. MUNDELL anticipates these levels have been introduced from the previously existing groundwater plume in **Source Area B** which is currently undergoing dechlorination via the CAP 18TM remediation.

Tables 6a and **6b** present the air sampling results for soil gas monitoring wells and the health based limits in air respectively. **Figure 5** demonstrates the recent and historical air analytical results at MGW-5. The analytical results are attached in **Appendix A**.

INDOOR AIR MITIGATION SYSTEMS PERFORMANCE

Four sub-floor slab depressurization units were installed by *Air Quality Control (AQC)* under the oversight of MUNDELL in September 2006. Three additional sub-floor slab depressurization units were installed by AQC under the oversight of MUNDELL on March 19 and 26, 2008.

Unit/blowers were installed in the following spaces at Michigan Plaza: 1) the Village Pantry (B1), 2) the former Handicap Space (B2), 3) the Mexican Store (B3), and 4) the Laundromat (B4). The systems installed at the Michigan Apartments are: Building No. 1, Basement Apartment 101 (B5), Building No. 6, Basement Apartment 602 (B6), and Building No. 10, Basement Apartment 1001 (B7). The system locations are illustrated in **Figure 6**.

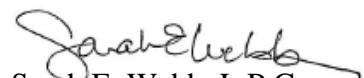
Since the time of installation, system stack air samples were collected weekly for a few weeks followed by bi-weekly sampling for a month, monthly for a quarter and then on a quarterly basis thereafter. PID readings have also been concurrently measured in each of the stacks. The historical PCE concentration trends and cumulative pounds of PCE and total contaminants removed by each of the systems (B1 through B7) are summarized in **Figures 7 through 15**.

As of the third quarter of 2010, approximately *13.52 pounds* of PCE and *16.43 pounds* of total chlorinated solvents have been removed at the *Michigan Apartments property* (sub slab depressurization systems **B5**, **B6** and **B7**); and approximately *87.34 pounds* of PCE and *93.46 pounds* of total chlorinated solvents have been removed at the *Michigan Plaza property* (sub slab depressurization systems **B1**, **B2**, **B3** and **B4**). The associated calculations are provided in **Appendix B**. A concentration of half the PQL (practical quantitation limit) is assumed for the indicator compounds demonstrating concentrations below the laboratory PQL with the exception of vinyl chloride where an average concentration of 0.015 PPMV (derived from the J flag values for VC concentrations below PQL) is used for calculation purposes.

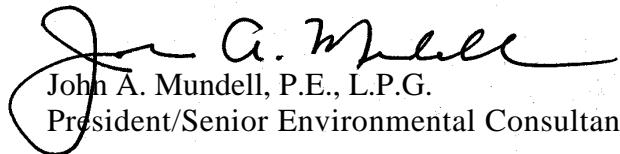
We appreciate the opportunity to update IDEM on the progress of remedial activities and monitoring at the Site. If you have any questions, please do not hesitate to contact us at (317) 630-9060 or via email (jmundell@MundellAssociates.com; swebb@MundellAssociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.



Sarah E. Webb, L.P.G.
Project Hydrogeologist



John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

Attachments: Tables
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cc: Mr. Peter Cappel, AIMCO

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Appendix A. Lab Analytical Results

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TABLES

Table 1
Tabulated Water Level Measurements
Quarter 3 (2010)
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
On-Site Monitoring Wells					
MMW-P-01	7/20/2010	714.903	28	18.06	696.84
MMW-P-02	7/20/2010	715.686	30	18.92	696.77
MMW-P-03S	7/20/2010	715.6	28	18.85	696.75
MMW-P-03D	7/20/2010	715.582	35	18.84	696.74
MMW-P-04	7/20/2010	715.492	28	18.75	696.74
MMW-P-05	7/20/2010	715.17	28	18.40	696.77
MMW-P-06	7/20/2010	715.721	28	18.95	696.77
MMW-P-07	7/20/2010	714.471	28	17.35	697.12
MMW-P-08	7/20/2010	714.142	28	17.01	697.13
MMW-P-10S	7/20/2010	713.941	28	16.86	697.08
MMW-P-10D	7/20/2010	714.05	38	17.21	696.84
Off-Site Monitoring Well (Olin-Cossell ROW)					
MMW-P-09S	7/20/2010	714.447	28	18.87	695.58
MMW-P-09D	7/20/2010	714.394	45	18.85	695.54
Off-Site Monitoring Wells (Keramida)					
MW-167S	7/20/2010	716.25	22	NS	NS
MW-167D	7/20/2010	716.25	33	17.79	698.46
MW-168S	7/20/2010	714.79	22	17.31	697.48
MW-168D	7/20/2010	714.71	31	17.22	697.49
MW-169S	7/20/2010	715.95	25	18.90	697.05
MW-169D	7/20/2010	715.23	37	18.98	696.25
MW-170S	7/20/2010	717.40	27	19.47	697.93
MW-170D	7/20/2010	717.34	39	19.39	697.95
MW-171S	7/20/2010	711.83	22	15.18	696.65
MW-171D	7/20/2010	711.88	49	15.35	696.53
Off-Site Monitoring Wells (Michigan Meadows Apartments)					
MMW-1S	7/20/2010	712.54	20	15.36	697.18
MMW-2S	7/20/2010	712.588	20	14.91	697.678
MMW-3S	7/20/2010	709.763	30	12.15	697.613
MMW-4D	7/20/2010	710.877	66	13.12	697.757
MMW-5D	7/20/2010	710.852	51	12.99	697.862
MMW-6D	7/20/2010	711.971	51	13.99	697.981
MMW-7S	7/20/2010	711.64	26	13.62	698.02
MMW-8S	7/20/2010	713.81	24	16.27	697.54
MMW-9S	7/20/2010	713.249	25	16.51	696.739
MMW-10S	7/20/2010	713.23	25	15.46	697.77
MMW-11S	7/20/2010	713.69	33	15.25	698.44
MMW-11D	7/20/2010	713.64	33	15.41	698.23
MMW-12S	7/20/2010	712.82	24	14.67	698.15
MMW-13D	7/20/2010	712.884	50	15.21	697.674
MMW-14D	7/20/2010	711.77	50	14.45	697.32
Monitoring Wells Installed 2008					
MMW-C-01	7/20/2010	715.272	28	18.61	696.662
MMW-C-02	7/20/2010	714.22	28	18.12	696.1

Table 2
Monitoring Well Construction Summary
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-P-01	09/28/05	9/19/07	715.79	28.00	18.00	-	28.00	19.69	696.10
MMW-P-02	09/27/05	9/19/07	716.70	30.00	20.00	-	30.00	20.90	695.80
MMW-P-03S	09/26/05	9/19/07	716.55	28.00	18.00	-	28.00	20.79	695.76
MMW-P-03D	09/27/05	9/19/07	716.45	35.00	25.00	-	35.00	20.63	695.82
MMW-P-04	09/26/05	9/19/07	716.27	28.00	18.00	-	28.00	20.49	695.78
MMW-P-05	09/26/05	9/19/07	716.12	28.00	18.00	-	28.00	20.14	695.98
MMW-P-06	09/28/05	9/19/07	716.50	28.00	18.00	-	28.00	20.57	695.93
MMW-P-07	01/11/07	9/19/07	715.30	28.00	18.00	-	28.00	18.84	696.46
MMW-P-08	01/11/07	9/19/07	715.22	28.00	18.00	-	28.00	18.61	696.61
MMW-P-09S	01/29/07	9/19/07	715.36	28.00	18.00	-	28.00	20.17	695.19
MMW-P-09D	05/31/07	9/19/07	715.21	45.00	35.00	-	45.00	20.35	694.86
MMW-P-10S	06/01/07	9/19/07	714.59	28.00	18.00	-	28.00	18.30	696.29
MMW-P-10D	06/01/07	9/19/07	714.98	38.00	28.00	-	38.00	18.69	696.29

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW-165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

Table 2a
Monitoring Well Construction Summary
Michigan Apartments
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-1S	8/20/04	9/19/07	713.66	20.00	10.00	-	20.00	16.36	697.30
MMW-8S	1/11/07	9/19/07	714.75	24.00	14.00	-	24.00	17.41	697.34
MMW-9S	1/12/07	9/19/07	714.09	25.00	15.00	-	25.00	17.45	696.64
MMW-10S	1/12/07	9/19/07	713.23	25.00	15.00	-	25.00	16.17	697.06
MMW-11D	5/31/07	9/19/07	713.69	33.00	23.00	-	33.00	16.43	697.26
MMW-11S	11/26/08	NM	713.64	24.00	14.00	-	24.00	NM	NA
MMW-12S	11/26/08	NM	712.82	28.00	18.00	-	28.00	NM	NA
MMW-13D	11/21/08	NM	713.53	50.00	35.00	-	50.00	NM	NA
MMW-14D	12/10/08	NM	712.61	50.00	40.00	-	50.00	NM	NA

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW-165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

NM: Not Measured

NA: Not Available

Table 3
Monitoring Well Groundwater Analytical Results
Quarter 3 (2010)
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	7/21/2010	310	21.8	<5.0	<5.0	<5.0	<2.0
MMW-8S	7/21/2010	6.2	<5.0	14.9	<5.0	<5.0	230
MMW-9S	7/21/2010	<50.0	<50.0	2,910	73.2	<50.0	2,020
MMW-10S	7/21/2010	15.6	9.7	267	8.3	5.0	239
MMW-11S	7/21/2010	<5.0	<5.0	120	7.4	<5.0	4.3
MMW-11D	7/21/2010	<5.0	<5.0	396	21.8	<5.0	10.9
MMW-12S	7/21/2010	<5.0	<5.0	25.4	<5.0	<5.0	7.3
MMW-13D	7/21/2010	<5.0	<5.0	432	<5.0	<5.0	16.6
MMW-14D	7/21/2010	<5.0	<5.0	805	14.6	<5.0	60.8
Monitoring Wells (Plaza)							
MMW-P-01	7/7/2010	<50.0	<50.0	1,880	<50.0	<50.0	2,960
MMW-P-02	7/21/2010	24	<5.0	72.4	<5.0	<5.0	161
MMW-P-03S	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	141
MMW-P-03D	7/21/2010	6.6	<5.0	271	8.1	<5.0	305
MMW-P-04	7/22/2010	<5.0	<5.0	189	12.9	<5.0	402
MMW-P-05	7/21/2010	<5.0	<5.0	10.4	<5.0	<5.0	5.3
MMW-P-06	7/21/2010	<50.0	<50.0	<50.0	<50.0	<50.0	5,870
MMW-P-07	7/22/2010	<5.0	<5.0	247	7.8	<5.0	1,680
MMW-P-08	7/22/2010	<5.0	<5.0	97.8	<5.0	<5.0	1,320
MMW-P-09S	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	81.2
MMW-P-10S	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.5
MMW-P-10D	7/22/2010	<5.0	<5.0	120	<5.0	<5.0	865
Keramida Monitoring Wells (Off-site)							
MW-165D	7/7/2010	<5.0	<5.0	122	<5.0	<5.0	202
MW-168D	7/22/2010	<5.0	<5.0	6.0	<5.0	<5.0	122
MW-170D	7/7/2010	<5.0	<5.0	<5.0	<5.0	<5.0	233
MW-171D	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Floral Park Monitoring Wells (Off-site)							
MMW-C-01	7/22/2010	40.9	<5.0	22.4	<5.0	<5.0	8.1
MMW-C-02	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC Default Industrial		55	31	1,000	2,000	1,000	4
IDEM RISC Default		5	5	70	100	80	2

Table 4
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	9/10/2004	3.1 J	<5.0	<5.0	<5.0	<5.0	4.1
	3/15/2005	150	10	<5.0	<5.0	<5.0	<2.0
	11/9/2005	130	8.3	<5.0	<5.0	<5.0	8.9
	9/5/2006	200	13	<5.0	<5.0	<5.0	4.6
	2/22/2007	220	14.9	<5.0	<5.0	<5.0	<2.0
	6/14/2007	240	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	362	10.5	<5.0	<5.0	31.6	<2.0
	12/13/2007	330	8.1	<5.0	<5.0	27	<2.0
	3/21/2008	280	14	<5.0	<5.0	<5.0	<2.0
	6/6/2008	277	13.2	<5.0	<5.0	<5.0	<2.0
	9/11/2008	288	14.7	<5.0	<5.0	<5.0	<2.0
	11/20/2008	223	45.5	169	<5.0	<5.0	14.5
	3/16/2009	199	11.3	<5.0	<5.0	<5.0	<2.0
	6/16/2009	237	13.4	<5.0	<5.0	<5.0	<2.0
	8/5/2009	195	22.9	71.3	<5.0	<5.0	9.3
	11/2/2009	189	39.0	119	<5.0	<5.0	26.6
	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
	4/22/2010	206	14.7	<5.0	<5.0	<5.0	<2.0
	7/21/2010	310	21.8	<5.0	<5.0	<5.0	<2.0
MMW-2S	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	9/5/2006	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-3S	8/26/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	5.2	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	28	5.4	<5.0	<5.0	<2.0
	9/5/2006	<5.0	23	7.4	<5.0	<5.0	<2.0
	6/2/2008	<5.0	20.2	7.9	<5.0	<5.0	2.8
	6/15/2009	<5.0	15.3	11.7	<5.0	<5.0	3.0
MMW-4D	4/20/2010	<5.0	15.9	8.0	<5.0	<5.0	<2.0
	8/25/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	980	<5.0	<5.0	200
	11/10/2005	<5.0	<5.0	850	<5.0	<5.0	240
	9/5/2006	<5.0	<5.0	1,100	2.3J	<5.0	220
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
MMW-5D	6/15/2009	<5.0	<5.0	892	7	<5.0	142
	4/20/2010	<5.0	<5.0	719	<5.0	<5.0	237
	8/24/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	3,400	13	<5.0	270
	11/10/2005	<5.0	<5.0	3,900	19	<5.0	140
	9/5/2006	<50	<50	2,500	<50	<5.0	170
MMW-6D	6/2/2008	<5.0	<5.0	1,360	19.9	<5.0	207
	6/15/2009	<5.0	<5.0	1,110	14.5	<5.0	242
	4/20/2010	<5.0	<5.0	943	<5.0	<5.0	204
	9/10/2004	<5.0	<5.0	540	<5.0	<5.0	400
	11/10/2005	<5.0	<5.0	750	<5.0	<5.0	700
	9/5/2006	<5.0	<5.0	300	<5.0	<5.0	440
MMW-7S	6/2/2008	<5.0	<5.0	65.5	<5.0	<5.0	242
	6/15/2009	<5.0	<5.0	8.6	<5.0	<5.0	111
	4/20/2010	<5.0	<5.0	8.2	<5.0	<5.0	63.6
	8/24/2004	<5.0	<5.0	28	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	8.5	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	9.5	<5.0	<5.0	<2.0
	9/5/2006	<5.0	<5.0	5.8	<5.0	<5.0	4.5
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	IDEMLISC Default Industrial Cleanup Level - 2006	55	31	1,000	2,000	1,000	4
	IDEMLISC Default Residential Cleanup Level - 2006	5	5	70	100	80	2

Note:

All Values Over IDEMLISC Default Industrial Cleanup Level in **RED**

All Values Over IDEMLISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

"-" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error

Table 4
Historical Monitoring Well Groundwater Analytical Results
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Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-8S	2/22/2007	114	<5.0	289	13.8	<5.0	40.6
	6/14/2007	15.9	<5.0	364	9.5	<5.0	82.1
	9/19/2007	<5.0	<5.0	778	24.6	<5.0	145
	12/13/2007	7.7	<5.0	1,000	7.4	<5.0	586
	3/20/2008	<5.0	<5.0	470	<5.0	<5.0	330
	6/6/2008	<5.0	<5.0	336	<5.0	<5.0	509
	9/10/2008	<5.0	<5.0	275	<5.0	<5.0	322
	11/20/2008	<5.0	<5.0	123	<5.0	<5.0	584
	3/16/2009	<5.0	<5.0	95	<5.0	<5.0	348
	6/16/2009	<5.0	<5.0	94.3	6.1	<5.0	280
	8/5/2009	<5.0	<5.0	83.8	<5.0	<5.0	261
	11/2/2009	<5.0	<5.0	58.3	<5.0	<5.0	277
	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
	4/22/2010	<5.0	<5.0	9.0	<5.0	<5.0	151
	7/21/2010	6.2	<5.0	14.9	<5.0	5.0	230
MMW-9S	2/22/2007	782	88.6	78.9	<5.0	<5.0	<2.0
	6/14/2007	858	85.7	65.3	<5.0	<5.0	<2.0
	9/20/2007	1,430	112	70.3	8.2	<5.0	<2.0
	12/12/2007	37.9 J	17.9 J	1,700	29.8 J	<50.0	<20.0
	3/21/2008	57	20	2,900	39	<5.0	16
	6/6/2008	52.9	28	1,540	38.2	<5.0	295
	9/10/2008	52.6	22.7	4,920	94.5	<5.0	167
	11/20/2008	<5.0	<5.0	5,820	90.2	<5.0	1,010
	3/16/2009	<50.0	<50.0	7,490	73.8	<50.0	1,800
	6/16/2009	44.5	24.9	4,810	64	<5.0	876
	8/5/2009	<5.0	<5.0	5,010	64.2	<5.0	1,110
	11/2/2009	<5.0	<5.0	5,410	120	<5.0	1,050
	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
	4/22/2010	<5.0	<5.0	4,300	77.1	<5.0	1,710
	7/21/2010	<50.0	<50.0	2,910	73.2	<50.0	2,020
MMW-10S	2/22/2007	49.6	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	77.6	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	66	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	124	56	149	<5.0	<5.0	<2.0
	3/21/2008	440	12	8.1	<5.0	<5.0	12
	6/6/2008	541	62.1	218	<5.0	<5.0	30.4
	9/10/2008	6.9	<5.0	353	8.2	<5.0	<2.0
	11/20/2008	<5.0	<5.0	212	<5.0	<5.0	15.9
	3/16/2009	<5.0	<5.0	302	<5.0	<5.0	114
	6/16/2009	22.8	15.4	415	12	<5.0	81.4
	8/5/2009	<5.0	<5.0	224	5.5	<5.0	156
	11/2/2009	12.8	10.1	239	5.6	<5.0	119
	2/3/2010	8.3	7.5	180	5.1	<5.0	148
	4/22/2010	<5.0	7.9	165	<5.0	<5.0	143
	7/21/2010	15.6	9.7	267	8.3	<5.0	239
MMW-11S	6/14/2007	<5.0	<5.0	225	6.8	<5.0	18.6
	9/19/2007	<5.0	<5.0	442	21.1	<5.0	30.1
	12/13/2007	7.2	<5.0	920	27	<5.0	49
	3/20/2008	<5.0	<5.0	420	17	<5.0	4.9
	6/5/2008	<5.0	<5.0	623	23.1	<5.0	26.7
	9/10/2008	<5.0	<5.0	327	18.3	<5.0	9.9
	11/20/2008	<5.0	<5.0	554	23.9	<5.0	18.5
	3/16/2009	<5.0	<5.0	37.6	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	253	17.9	<5.0	2.8
	8/5/2009	<5.0	<5.0	80.7	5.5	<5.0	3.1
	11/2/2009	<5.0	<5.0	59.9	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	17.7	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	120	7.4	<5.0	4.3
MMW-11D	6/16/2009	<5.0	<5.0	25.3	6.7	<5.0	<2.0
	8/5/2009	<5.0	<5.0	485	22.6	<5.0	15.3
	11/2/2009	<5.0	<5.0	771	31.8	<5.0	18.8
	2/3/2010	<5.0	<5.0	301	28.2	<5.0	5.2
	4/22/2010	<5.0	<5.0	307	21.8	<5.0	2.6
MMW-12S	7/21/2010	<5.0	<5.0	396	21.8	<5.0	10.9
	6/16/2009	<5.0	<5.0	9.7	<5.0	<5.0	6.5
	8/5/2009	<5.0	<5.0	47.3	<5.0	<5.0	15.2
	11/2/2009	<5.0	<5.0	28.8	<5.0	<5.0	7.1
	2/3/2010	<5.0	<5.0	11.40	<5.0	<5.0	2.10
	4/20/2010	<5.0	<5.0	5.3	<5.0	<5.0	<2.0
MMW-13D	7/21/2010	<5.0	<5.0	25.4	<5.0	<5.0	7.3
	8/5/2009	<5.0	<5.0	672	<5.0	<5.0	59.2
	11/2/2009	<5.0	<5.0	949	<5.0	<5.0	182
	2/3/2010	<5.0	<5.0	819	6.20	<5.0	260.00
	4/22/2010	<5.0	<5.0	469	<5.0	<5.0	4.6
MMW-13D Low	7/21/2010	<5.0	<5.0	432	<5.0	<5.0	16.6
	6/16/2009	<5.0	<5.0	613	10.4	<5.0	17.3
MMW-13D Medium (29')	6/16/2009	<5.0	<5.0	578	12.1	<5.0	14.9
MMW-13D High (17')	6/16/2009	<5.0	<5.0	597	9.7	<5.0	21.1
MMW-14D	6/16/2009	<5.0	<5.0	648	15.6	<5.0	57.6
	8/5/2009	<5.0	<5.0	589	10.9	<5.0	79.1
	11/2/2009	<5.0	<5.0	541	9.2	<5.0	83.8
	2/3/2010	<5.0	<5.0	871	13.90	<5.0	84.90
	4/20/2010	<5.0	<5.0	763	14.1	<5.0	72.8
IDEM RISC Default Industrial Cleanup Level - 2006	7/21/2010	<5.0	<5.0	805	14.6	<5.0	60.8
		55	31	1,000	2,000	1,000	

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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Plaza)							
MMW-P-01	11/9/2005	33	210	160	9.6	<5.0	76
	2/22/2007	85.2	356	274	16.7	<5.0	28.7
	6/14/2007	111	368	350	10	<5.0	79.6
	9/20/2007	206	322	300	11.5	<5.0	127
	12/14/2007	230	320	240	7.1	<5.0	87
	3/21/2008	120	170	3,100	25	<5.0	42
	6/5/2008	22	31.5	3,660	68.6	<5.0	123
	9/11/2008	14.2	15.1	1,690	<5.0	<5.0	87.7
	11/19/2008	<5.0	<5.0	4,320	<5.0	<5.0	116
	3/17/2009	17.5	22.6	12,300	143	<5.0	3,290
	6/17/2009	<50.0	<50.0	4,020	63.9	<50.0	1,840
	8/6/2009	97.4	37.0J	12,200	<50.0	<50.0	3,730
	11/3/2009	103	58.3	9,330	<50.0	<50.0	4,770
	2/4/2010	104	60.6	9,190	130	<50.0	13,600
	4/22/2010	90.5	79	9,400	94.7	<50.0	12,600
	7/7/2010	<50.0	<50.0	1,880	<50.0	<50.0	2,960
MMW-P-02	11/8/2005	24	<5.0	87	7.3	<5.0	49
	2/22/2007	184	<5.0	39.4	<5.0	<5.0	27.4
	6/14/2007	17.1	<5.0	35	<5.0	<5.0	27.5
	9/19/2007	13.3	<5.0	66.3	5.6	<5.0	50.1
	12/13/2007	7.8	<5.0	69	<5.0	<5.0	53
	3/20/2008	19	<5.0	67	<5.0	<5.0	42
	6/5/2008	94.9	<5.0	44	<5.0	<5.0	46.4
	9/11/2008	17.5	<5.0	46.6	<5.0	<5.0	42
	11/19/2008	10.7	<5.0	75.4	<5.0	<5.0	69.5
	3/17/2009	23.4	<5.0	65.4	5.3	<5.0	68.4
	6/17/2009	5.1	<5.0	54.2	9.2	<5.0	80.6
	8/6/2009	5.1	<5.0	55.8	<5.0	<5.0	56.2
	11/3/2009	11.1	<5.0	60.1	<5.0	<5.0	73.9
	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
	4/22/2010	9.9	6.8	56	8	<5.0	110
	7/21/2010	24	<5.0	72.4	<5.0	<5.0	161
MMW-P-03S	11/9/2005	110	<5.0	97	9.6	<5.0	<2.0
	2/22/2007	397	<5.0	105	10	<5.0	<2.0
	6/14/2007	256	<5.0	96.4	9.2	<5.0	9.3
	9/20/2007	144	<5.0	131	15.8	<5.0	16
	12/13/2007	67	<5.0	88	5.3	<5.0	15
	3/20/2008	130	<5.0	84	7.3	<5.0	10
	6/5/2008	19.4	<5.0	380	14.9	<5.0	10.6
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	6.0	494	<5.0	<5.0	40.8
	3/17/2009	7.5	<5.0	904	38.7	<5.0	283
	6/17/2009	<5.0	<5.0	332	22.3	<5.0	759
	8/6/2009	30.6	8.2	573	25	<5.0	843
	11/3/2009	<5.0	<5.0	141	16.1	<5.0	379
	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
	4/22/2010	14.2	8.9	156	13.4	<5.0	377
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	141
MMW-P-03D	11/9/2005	22	<5.0	42	<5.0	<5.0	2
	2/22/2007	48.9	<5.0	57.8	<5.0	39	15.6
	6/14/2007	21.7	<5.0	74.9	<5.0	<5.0	34.5
	9/19/2007	14.3	<5.0	76.1	7.3	<5.0	36.6
	12/13/2007	11	<5.0	40	<5.0	<5.0	20
	3/20/2008	<5.0	<5.0	170	6	<5.0	18
	6/5/2008	<5.0	<5.0	150	7.4	<5.0	26
	9/11/2008	<5.0	<5.0	95.7	6.4	<5.0	<2.0
	11/19/2008	<5.0	<5.0	80.6	<5.0	<5.0	36.9
	3/17/2009	<5.0	<5.0	65.2	<5.0	<5.0	69.8
	6/17/2009	<5.0	<5.0	14.9	5.9	<5.0	137
	8/6/2009	<5.0	<5.0	16.7	<5.0	<5.0	248
	11/3/2009	<5.0	<5.0	8.5	<5.0	<5.0	168
	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
	4/22/2010	<5.0	<5.0	7.2	<5.0	<5.0	211
	7/21/2010	6.6	<5.0	271	8.1	<5.0	305
MMW-P-04	11/9/2005	180	<5.0	<5.0	<5.0	<5.0	<2.0
	2/22/2007	315	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	268	<5.0	<5.0	<5.0	<5.0	<2.0
	9/20/2007	214	<5.0	<5.0	<5.0	<5.0	<2.0
	12/13/2007	62	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	120	<5.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	154	6.0	59.7	<5.0	<5.0	<2.0
	9/11/2008	31.9	<5.0	360	7.1	<5.0	<2.0
	11/19/2008	45	<5.0	248	<5.0	<5.0	<2.0
	3/18/2009	19.4	5.4	304	10.8	<5.0	<2.0
	6/17/2009	35.3	5.4	827	22	<5.0	2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/5/2009	<5.0	<5.0	1,190	36.9	<5.0	90.9
	2/12/2010	<5.0	<5.0	144	8.3	<5.0	224
	4/21/2010	<5.0	<5.0	268	15.8	<5.0	364
	7/22/2010	<5.0	<5.0	189	12.9	<5.0	402
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

"-" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error</p

Table 4
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-P-05	11/8/2005	<5.0	<5.0	6.2	<5.0	<5.0	<2.0
	2/22/2007	23.7	<5.0	9.1	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	12/14/2007	<5.0	<5.0	14.8	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	8.1	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	15.6	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	16.7	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	22.1	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	13.7	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	10.9	6.6	<5.0	<2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	7.6	<5.0	<5.0	2.7
	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	8.6	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	10.4	<5.0	<5.0	5.3
MMW-P-06	11/8/2005	<5.0	<5.0	200	24	<5.0	21
	2/22/2007	<5.0	<5.0	158	19.2	<5.0	<2.0
	6/14/2007	<5.0	<5.0	214	22.7	<5.0	13.3
	9/19/2007	<5.0	<5.0	283	38.2	<5.0	26.1
	12/14/2007	<5.0	<5.0	260	40	<5.0	31
	3/20/2008	<5.0	<5.0	250	31	<5.0	26
	6/5/2008	<5.0	<5.0	265	30.9	<5.0	40.1
	9/11/2008	<5.0	<5.0	271	33.3	<5.0	<2.0
	11/19/2008	<5.0	<5.0	292	<5.0	<5.0	61.4
	3/17/2009	<5.0	<5.0	292	35.3	<5.0	<2.0
	6/17/2009	<5.0	<5.0	145	22.2	<5.0	90.6
	8/6/2009	<5.0	<5.0	136	14.3	<5.0	301
	11/3/2009	<5.0	<5.0	107	15.2	<5.0	292
	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
	4/22/2010	<5.0	<5.0	23.7	8.0	<5.0	2,470
	7/21/2010	<50.0	<50.0	<50.0	<50.0	<50.0	5,870
MMW-P-07	2/22/2007	3,060	81.5	82	8.8	<5.0	<2.0
	6/14/2007	2,850	90	82.5	<50.0	<50.0	<20.0
	9/20/2007	5,200	109	121	16.1	<5.0	2.0
	12/13/2007	1,440	157	930	8.8	7.4	80
	3/21/2008	31	7.6	1,700	27	<5.0	110
	6/5/2008	<5.0	<5.0	938	15.6	<5.0	466
	9/11/2008	<5.0	<5.0	1,870	55.2	<5.0	1,620
	11/19/2008	<5.0	<5.0	797	<5.0	<5.0	749
	3/17/2009	<5.0	<5.0	361	17.7	<5.0	1,830
	6/17/2009	<5.0	<5.0	87.1	9.4	<5.0	1,130
	8/6/2009	<5.0	<5.0	48.7	<5.0	<5.0	787
	11/3/2009	<5.0	<5.0	809	14.1	<5.0	1,510
	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
	4/22/2010	<5.0	7.0	1,050	24	<5.0	2,080
	7/22/2010	<5.0	<5.0	247	7.8	<5.0	1,680
MMW-P-08	2/22/2007	6,280	281	240	26.7	<5.0	<2.0
	6/14/2007	6,440	310	169	<50.0	<50.0	<20.0
	9/20/2007	9,780	494	201	25.3	<5.0	6.5
	12/14/2007	390	210	5,800	<50.0	<50.0	<20.0
	3/21/2008	6.7	11	6,500	130	<5.0	55
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	562
	9/11/2008	5.8	5	18,300	686	<50.0	4,740
	11/19/2008	<50.0	<50.0	5,690	91.4	<50.0	13,000
	3/17/2009	<5.0	<5.0	1,130	47.1	<5.0	5,680
	6/17/2009	<125	<125	356	145	<5.0	7,200
	8/6/2009	<125	<125	601	<50.	<50.	8,960
	11/3/2009	<50.0	<50.0	86.7	<50.0	<50.0	2,860
	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
	4/22/2010	<5.0	<5.0	45.7	8.1	<5.0	2,180
	7/22/2010	<5.0	<5.0	97.8	<5.0	<5.0	1,320
MMW-P-09S	2/22/2007	10.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in RED

All Values Over IDEM RISC Default Residential Cleanup Level in BLUE

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

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Table 4
Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-P-09D	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	83.1
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	71
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	100
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	97.2
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	85.1
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	73.5
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	80.8
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	87.1
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	76.9
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	81.2
MMW-P-10S	6/14/2007	36.1	36.3	61.6	6.9	<5.0	<2.0
	7/6/2007	87.9	54.9	92.1	10.2	<5.0	<2.0
	9/19/2007	192	82.6	126	14.4	<5.0	<2.0
	12/14/2007	71	<5.0	<5.0	<5.0	<5.0	2.4
	3/20/2008	26.8	19.2	250	12.2	<5.0	<2.0
	6/5/2008	15	9.7	537	16	<5.0	114
	9/11/2008	74.8	36.5	1,650	74	<5.0	27.7
	11/19/2008	78.6	28	1,510	71.5	<5.0	22.3
	3/17/2009	11.9	8.6	1,160	71.5	<5.0	<2.0
	6/17/2009	<5.0	<5.0	331	20.5	<5.0	63.9
	8/6/2009	<5.0	<5.0	158	16.1	<5.0	395
	11/3/2009	<5.0	<5.0	29.6	<5.0	<5.0	288
	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
	4/22/2010	<5.0	<5.0	16.2	<5.0	<5.0	118
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.5
MMW-P-10D	6/14/2007	<5.0	10.6	481	7.7	<5.0	98.7
	7/6/2007	<5.0	<5.0	498	9.0	<5.0	118
	9/19/2007	<5.0	<5.0	350	<5.0	<5.0	76.1
	12/14/2007	<5.0	<5.0	270	<5.0	<5.0	77
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	6/5/2008	<5.0	<5.0	508	<5.0	<5.0	267
	9/11/2008	<5.0	<5.0	435	<5.0	<5.0	288
	11/19/2008	<5.0	<5.0	3,390	<5.0	<5.0	5,030
	3/17/2009	<5.0	<5.0	4,860	12.9	<5.0	2,500
	6/17/2009	<5.0	<5.0	3,710	9.6	<5.0	9,070
	8/6/2009	<5.0	<5.0	2,520	5.1	<5.0	3,400
	11/3/2009	<5.0	<5.0	2,740	<5.0	<5.0	3,500
	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
	4/22/2010	<5.0	<5.0	30.5	<5.0	<5.0	364
	7/22/2010	<5.0	<5.0	120	<5.0	<5.0	865
Keramida Monitoring Wells (Off-site)							
MW-165D	7/7/2010	<5.0	<5.0	122	<5.0	<5.0	202
MW-167S	11/7/2005	<5.0	<5.0	<5.0	<5.0	<5.0	14
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW167D	11/7/2005	<5.0	<5.0	750	<5.0		110
	6/5/2008	<5.0	<5.0	616	28	<5.0	43.8
	6/17/2009	<5.0	<5.0	612	22.1	<5.0	23.8
	4/21/2010	<5.0	<5.0	626	22.1	<5.0	25.6
MW-168S	11/7/2005	280	16	53	<5.0	<5.0	3.0
	2/21/2007	30.1	8.8	155	<5.0	<5.0	29.6
	6/14/2007	<5.0	<5.0	40.8	<5.0	<5.0	34
	9/19/2007	32.6	8.0	82.4	<5.0	<5.0	3.5
	12/13/2007	52	14	78	<5.0	<5.0	4.1
	3/20/2008	92	12	46	<5.0	<5.0	4.2
	6/5/2008	80.4	10.1	41.1	<5.0	<5.0	3.6
	9/11/2008	68.5	10.8	66.9	<5.0	<5.0	5.5
	8/7/2009	62.6	10.2	118	<5.0	NS	9.9
	4/21/2010	14	7.0	21.9	<5.0	<5.0	<2.0
MW-168D	11/7/2005	<5.0	<5.0	6.8	<5.0	<5.0	49
	2/21/2007	<5.0	<5.0	8.4	<5.0	<5.0	58.1
	6/14/2007	<5.0	<5.0	5.2	<5.0	<5.0	47.5
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	89.7
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	74
	3/20/2008	<5.0	<5.0	8	<5.0	<5.0	39
	6/5/2008	<5.0	<5.0	13.4	<5.0	<5.0	65.9
	9/11/2008	<5.0	<5.0	5.5	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	16.5	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	14.5
	8/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0	36.2
	11/4/2009	<5.0	<5.0	<5.0	<5.0	<5.0	99.1
	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**
All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**
PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene
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Historical Monitoring Well Groundwater Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-169S	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-169D	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	5.1
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	14.3
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.1
MW-170S	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	5.5
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-170D	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	230
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	174
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	161
MW-171S	7/7/2010	<5.0	<5.0	<5.0	<5.0	<5.0	233
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-171D	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.3
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Floral Park Cemetery Wells (Off-site)							
MMW-C-01	11/20/2008	15.7	8.3	296	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	508	7.3	<5.0	<2.0
	6/18/2009	23.2	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	84.8	<5.0	66.9	<5.0	<5.0	35.2
	11/3/2009	12.6	<5.0	211	8.9	<5.0	2,720
	2/3/2010	<5.0	<5.0	176	10.1	<5.0	1,790
	4/21/2010	15.3	<5.0	165	7.1	<5	1,660
	7/22/2010	40.9	<5.0	22.4	<5.0	<5.0	8.1
MMW-C-02	11/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEML RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEML RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

All Values Over IDEML RISC Default Industrial Cleanup Level in **RED**

All Values Over IDEML RISC Default Residential Cleanup Level in **BLUE**

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Green Shading indicates areas that are appear to be undergoing reductive dechlorination due to CAP-18 Injections

"J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations

"-" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error

TABLE 5
MONITORING WELL CUMULATIVE VOLATILE FATTY ACIDS ANALYTICAL RESULTS

**Michigan Plaza Shopping Center and Michigan Meadows Apartments
 Indianapolis, Indiana
 MUNDELL Job No.: M01046**

	Sample Date	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid
		mg/l								
MMW-1S	6/6/2008	9.00	0.14	0.35	<0.10	<0.07	0.35	<0.07	1.40	<0.07
MMW-9S	6/6/2008	3.00	<0.07	<0.10	<0.10	<0.07	0.28	<0.07	1.10	0.22
MMW-11S	6/6/2008	0.19	<0.07	<0.10	<0.10	<0.07	0.23	<0.07	<0.07	<0.07
MMW-P-03S	6/6/2008	31.00	0.45	0.14	<0.1	0.12	1.40	1.20	31.00	0.37
MMW-P-03D	6/6/2008	53.00	0.43	<0.10	<0.10	0.23	1.20	0.38	24.00	0.85
MMW-P-06	6/6/2008	60.00	1.70	<0.10	<0.10	0.21	1.40	1.20	29.00	0.44
MMW-P-08	6/6/2008	0.12	<0.07	<0.10	<0.10	<0.07	0.22	<0.07	<0.07	<0.07
MMW-P-09S	6/6/2008	3.50	<0.07	0.26	<0.10	<0.07	0.29	0.14	5.30	<0.07
MMW-P-10S	6/6/2008	0.11	<0.07	<0.10	<0.10	<0.07	0.21	<0.07	<0.07	<0.07
MW-168S	6/6/2008	0.12	<0.07	<0.10	<0.10	<0.07	0.21	<0.07	<0.07	<0.07
MW-170D	7/7/2010	<0.07	<0.05	<0.05	<0.05	<0.15	<0.1	<0.07	<0.05	<0.15
MW-165D	7/7/2010	<0.07	<0.05	<0.05	<0.05	<0.15	<0.1	<0.07	<0.05	<0.15
MMW-P-01	7/7/2010	2.5	<0.05	<0.05	<0.05	<0.05	<0.15	<0.1	<0.07	<0.05

TABLE 6a

AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Soil Gas Monitoring Data

Michigan Plaza Shopping Center & Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-DCE)			Vinyl Chloride (VC)		
		ppb	ug/m ³	mg/m ³	ppb	ug/m ³	mg/m ³	ppb	ug/m ³	mg/m ³	ppb	ug/m ³	mg/m ³
MGW-1	10/7/2004	0.26	1.8	0	0.079	0.42	0.0004	ND	ND	ND	0.2	0.51	0.0005
	4/15/2008	0.08	0.55	0.001	0.06	0.29	0.0003	ND	ND	ND	ND	ND	ND
	2/26/2009	4.8	32	0.032	1.3	6.8	0.0068	0.2	0.8	0.0008	ND	ND	ND
	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-2	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-3	10/7/2004	0.31	2.1	0	0.068	0.37	0.0004	ND	ND	ND	ND	ND	ND
	4/15/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	40	270	0.27	7.4	40	0.04	1.1	4.4	0.0044	0.29	0.73	0.0007
MGW-4	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-5	4/25/2003	18	120	0.12	297	1,600	1.6	479	1,900	1.900	0.43	1.10	0.0011
	10/7/2004	200	1,400	1.4	730	3,900	3.9	730	2,900	2,900	0.60	1.50	0.0015
	4/15/2008	680	4,600	4.6	660	3,600	3.6	230	910	0.91	ND	ND	ND
	2/26/2009	2,100	14,000	14	1,100	5,800	5.8	330	1,300	1.3	790	2,000	2.0
	3/4/2010	3,800	26,000	26	1,500	8,100	8.1	2,900	12,000	12.0	240	610	0.61
	7/23/2010	8,100	55,000	55	5,000	27,000	27.0	12,000	49,000	49	200	500	0.50

Note: The analytical results from the Gas Well (MGW) samples are not indicative of 'breathing zone' air quality, and comparison to published regulatory standards established for the breathing zone are included here for informational purposes only.

Results shown in **RED** exceed the draft **U.S. EPA** commercial guidance; results in bold **BLACK** and with blue **SHADING** exceed **IDEM** 2006 target commercial air concentrations; results with a green **OUTLINE** exceed **IDEM** 2010 target commercial air concentrations.

TABLE 6b
AIR CONCENTRATION HEALTH-BASED LIMITS
 (ug/m³)
Michigan Plaza Shopping Center
Indianapolis, Indiana
MUNDELL Project No. M01046

	Chemical Name			
	cis-1,2-Dichloroethylene (cis-1,2-DCE)	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Vinyl Chloride
Carcinogen Classification*	D	B/C	B/C	A
U.S. EPA Draft Guidance Target Indoor Air Concentration^a	35	81	2	28
IDEML Draft Default Residential Vapor Intrusion Concentration^b	37	3	1	2
IDEML Draft Default Commercial Vapor Intrusion Concentration^b	51	7	8	9
IDEML Draft Default Residential Vapor Intrusion Concentration^c	37	36	20	35
IDEML Draft Default Commercial Vapor Intrusion Concentration^c	51	51	200	150
U.S. EPA Draft Guidance Target Deep Soil Gas^a	3,500	8,100	220	280
IDEML Draft Guidance Residential Soil Gas Screening Levels^b	NA	320	120	220
IDEML Draft Guidance Commercial Soil Gas Screening Levels^b	NA	680	790	890
IDEML Draft Guidance Residential Soil Gas Screening Levels^c	NA	3,600	2,000	3,500
IDEML Draft Guidance Commercial Soil Gas Screening Levels^c	NA	5,100	20,000	15,000
IDEML Draft Guidance Residential Sub slab Screening Levels^b	NA	32	12	22
IDEML Draft Guidance Commercial Sub slab Screening Levels^b	NA	68	79	89
IDEML Draft Guidance Residential Sub slab Screening Levels^c	NA	360	200	350
IDEML Draft Guidance Commercial Sub slab Screening Levels^c	NA	510	2,000	1,500

*Integrated Risk Information System (RISC), U.S. Environmental Protection Agency (EPA)

^a**EPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, November 2002**

^b**IDEML Draft Vapor Intrusion Pilot Program Guidance - April 26, 2006**

^c**IDEML Draft Vapor Intrusion Pilot Program Guidance Supplement February 4, 2010**

A = Human Carcinogen

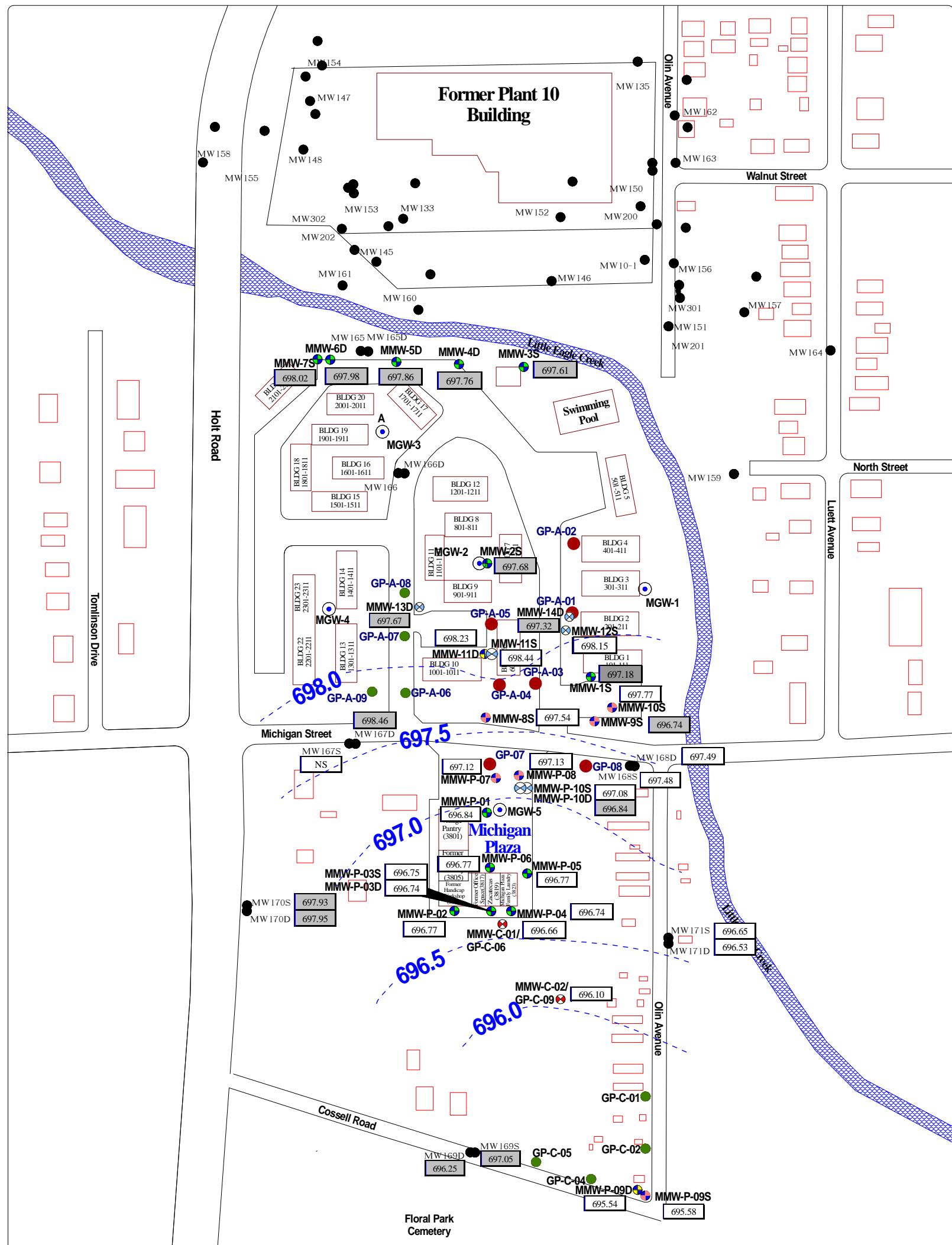
B = Probable human carcinogen

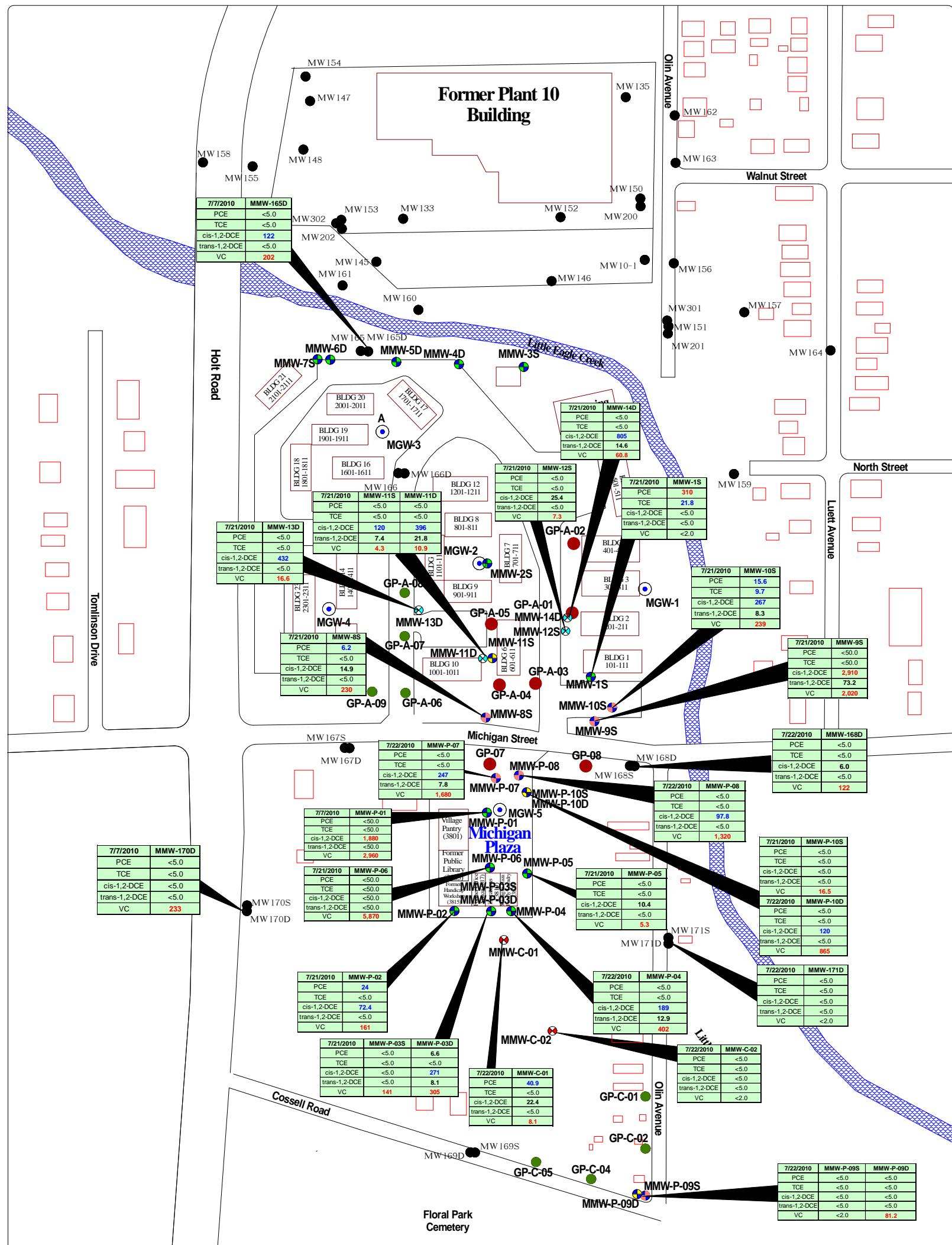
C = Possible human carcinogen

D = Not classifiable as to human carcinogenicity

NA - Not Available

FIGURES





LEGEND

- Fence
- MW160 ● Environ Monitoring Wells
- SS-P-01 ● MUNDELL Sewer Sampling Locations (September & November 2005)
- GP-07 ● MUNDELL Soil Boring Locations (September 2005)
- MMW-P-06 ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-04 ● MUNDELL Soil Boring Locations (January 2007)
- MMW-P-07 ● MUNDELL Monitoring Wells (January 2007)

MMW-11D ● MUNDELL Monitoring Wells (May-June 2007)

MMW-11S ✕ MUNDELL Monitoring Wells (November 2008)



Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.

Project No. 2829

March 13, 2002

NOTE:
Values in RED are above RISC Industrial
Cleanup Goals and those in BLUE are
above RISC Residential Cleanup Goals

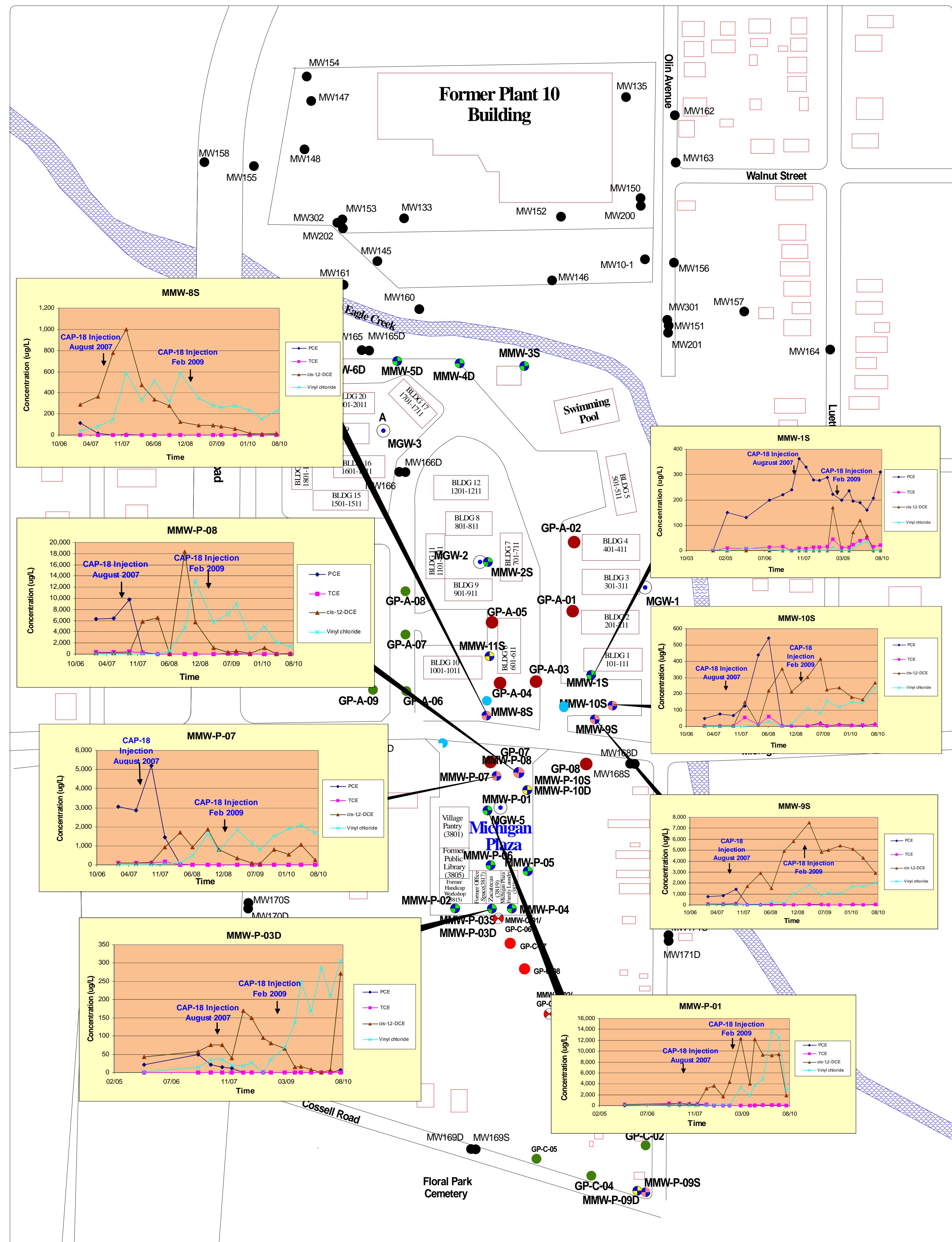
MUNDELL & ASSOCIATES, INC.
Consulting Professionals for the Earth & Environment

429 East Vermont Street, Suite 200
Indianapolis, Indiana 46202-3688
317-630-9060, fax 317-630-9065

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
9/30/2010
Scale:
1"=200'±

Groundwater Analytical Map
3rd Quarter, 2010
Sample Date: July 7, 21-22, 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE
2



LEGEND

- LEGEND**

 - Mundell Test Pit (TP-3) Sampling Locations (April 2005)
 - Sewer Excavation Sampling Locations (October 2007)
 - Fence
 - Sewer Line
 - MMW-11S**  MUNDELL Monitoring Wells (May-June 2007)
 - MW160** ● Environ Monitoring Wells
 - SS-P-01**  MUNDELL Sewer Sampling Locations/manholes (September & November 2005)
 - GP-07**  MUNDELL Soil Boring Locations (September 2005)
 - MMW-P-06**  MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
 - GP-C-04**  MUNDELL Soil Boring Locations (January 2007)
 - MMW-P-07**  MUNDELL Monitoring Wells (January 2007)
 - MMW-C-01** MUNDELL Monitoring Wells (July/August 2008)
 - GP-C-06** MUNDELL Soil Boring Locations (July/August 2008)

feet

Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.

Project No. 2829

Project No. 2829
May 13, 2002

March 13, 2002

MUNDELL & ASSOCIATES INC.

MURDOCK & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

*110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-639-0060, fax 317-639-0065*

Project Number:
M01046

Drawing File:
Base Map.SKF

Date Prepared:
9/30/2010

Scale:

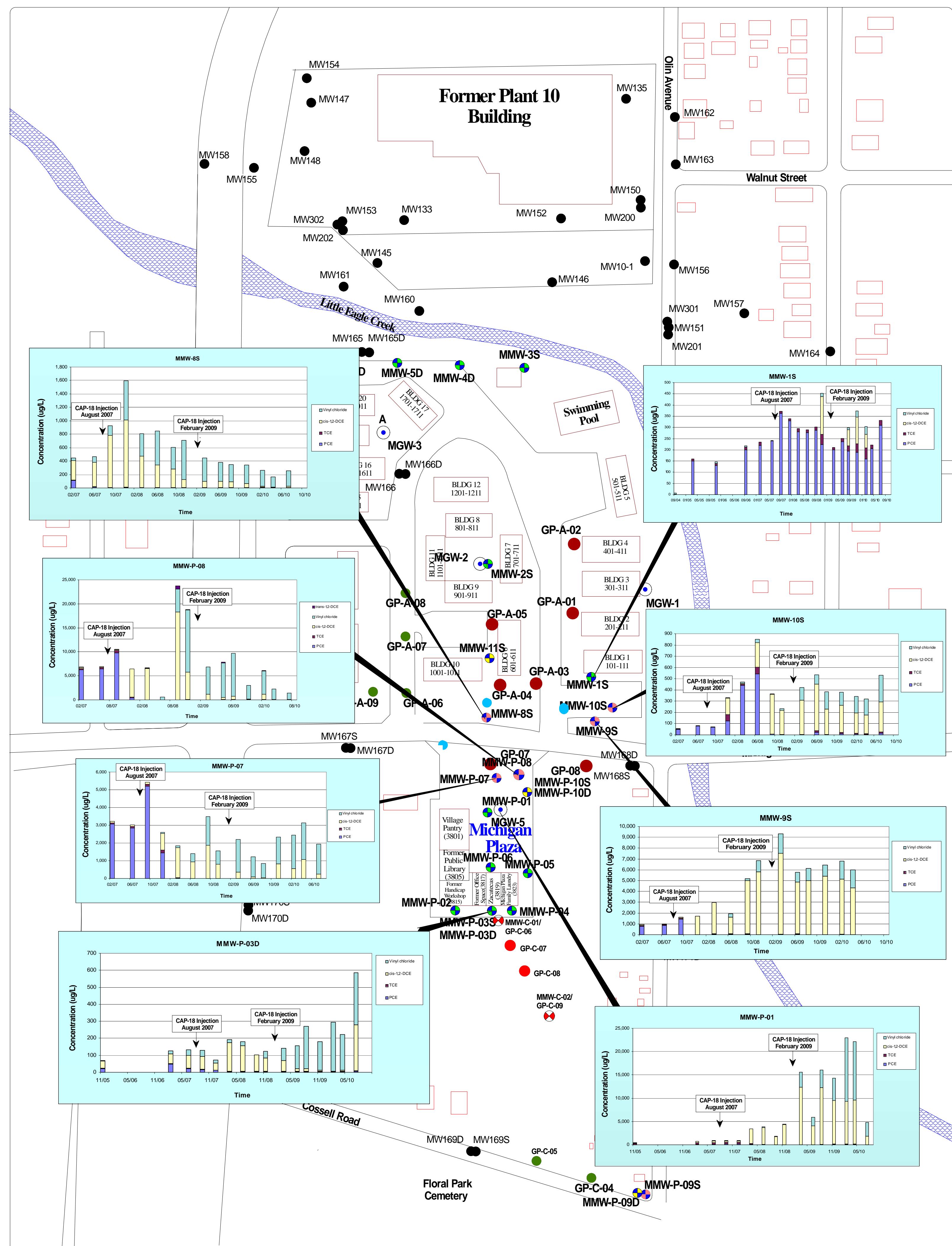
Indicator Compound Trends in Groundwater

Compound Trends in Third Quarter 2010

Third Quarter 2011 Michigan Plaza

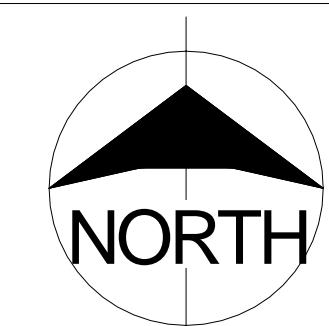
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE 3



LEGEND

- Mundell Test Pit (TP-3) Sampling Locations (April 2005)
- Sewer Excavation Sampling Locations (October 2007)
- Fence
- Sewer Line
- MMW-11S** MUNDELL Monitoring Wells (May-June 2007)
- MW160** Environ Monitoring Wells
- SS-P-01** MUNDELL Sewer Sampling Locations/manholes (September & November 2005)
- GP-07** MUNDELL Soil Boring Locations (September 2005)
- MMW-P-06** MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-04** MUNDELL Soil Boring Locations (January 2007)
- MMW-P-07** MUNDELL Monitoring Wells (January 2007)
- MMW-C-01** MUNDELL Monitoring Wells (July/August 2008)
- GP-C-06** MUNDELL Soil Boring Locations (July/August 2008)



Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.

Project No. 2829

March 13, 2002

MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number:
M01046

Drawing File:
Base Map.SKF

Date Prepared:
9/30/2010

Scale:

Parent and Daughter Products Distribution in Groundwater

Third Quarter 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

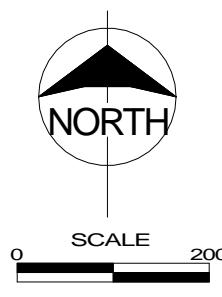
FIGURE
4



LEGEND

- Fence
- MW-160 Environ Groundwater Monitoring Well
- MUNDELL Air Quality Sampling Location (Dec. 10, 2001)
- MUNDELL Air Quality Sampling Location (April 23 & 24, 2003)
- MUNDELL Ambient (outside) Air Quality Sampling Location (Oct. 2004)
- MUNDELL Indoor Air Quality Sampling Location (Oct. 2004)
- MUNDELL Below Slab Sampling Location (Oct. 2004)
- MUNDELL Indoor Air Quality Sampling Location (March 2010)
- MUNDELL Ambient (outside) Air Quality Sampling Location (March 2010)
- B2 MUNDELL Existing Air Mitigation System Locations (March 2010)
- MGW-5 MUNDELL Monitoring Gas Well

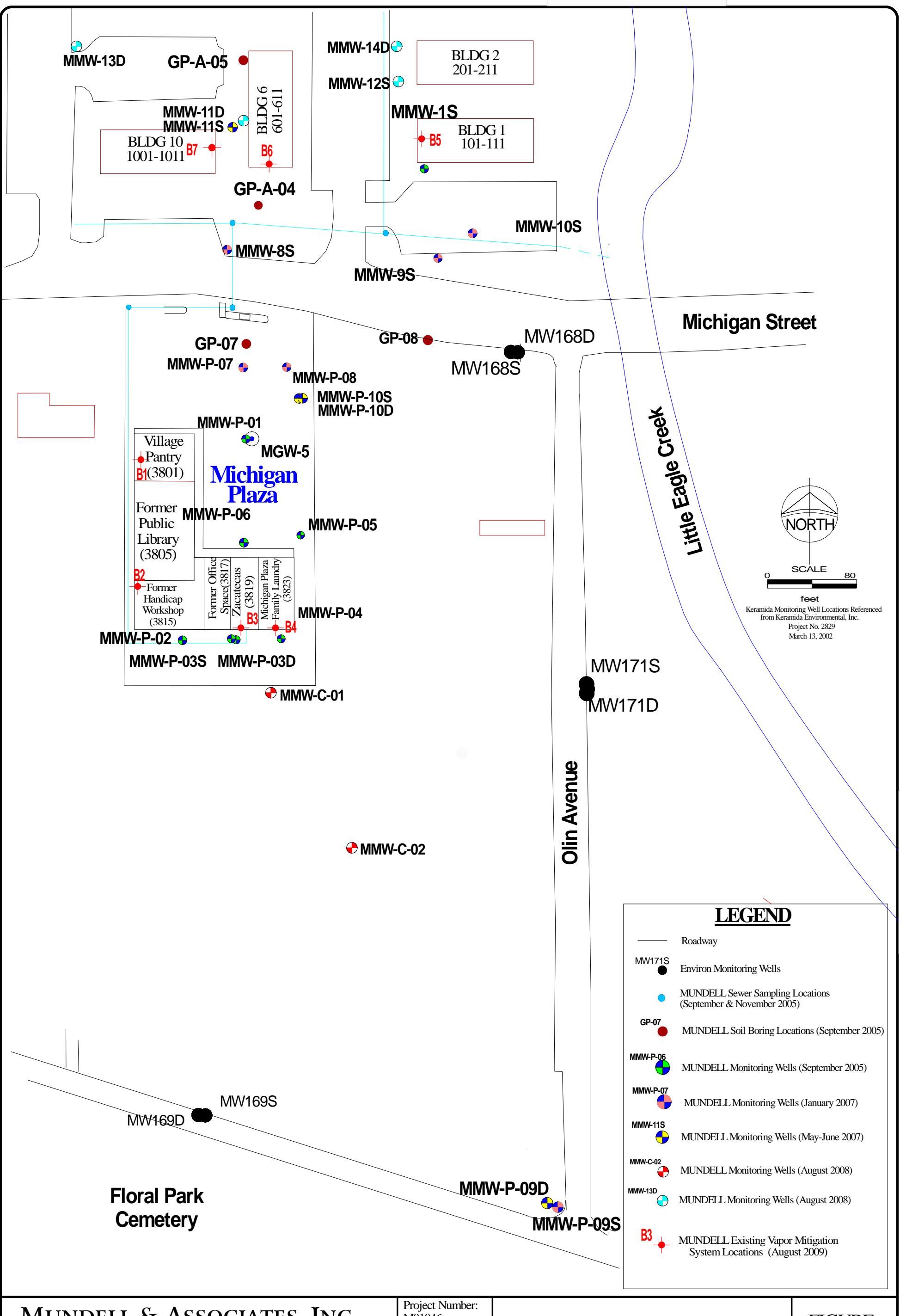
2.30 Results in RED exceed the draft U.S. EPA commercial guidance.
8.8 Results shown in bold BLACK and with blue SHADING exceed IDEM 2006 target commercial air concentrations.
180 Results with a GREEN outline exceed IDEM 2010 target commercial air concentrations.



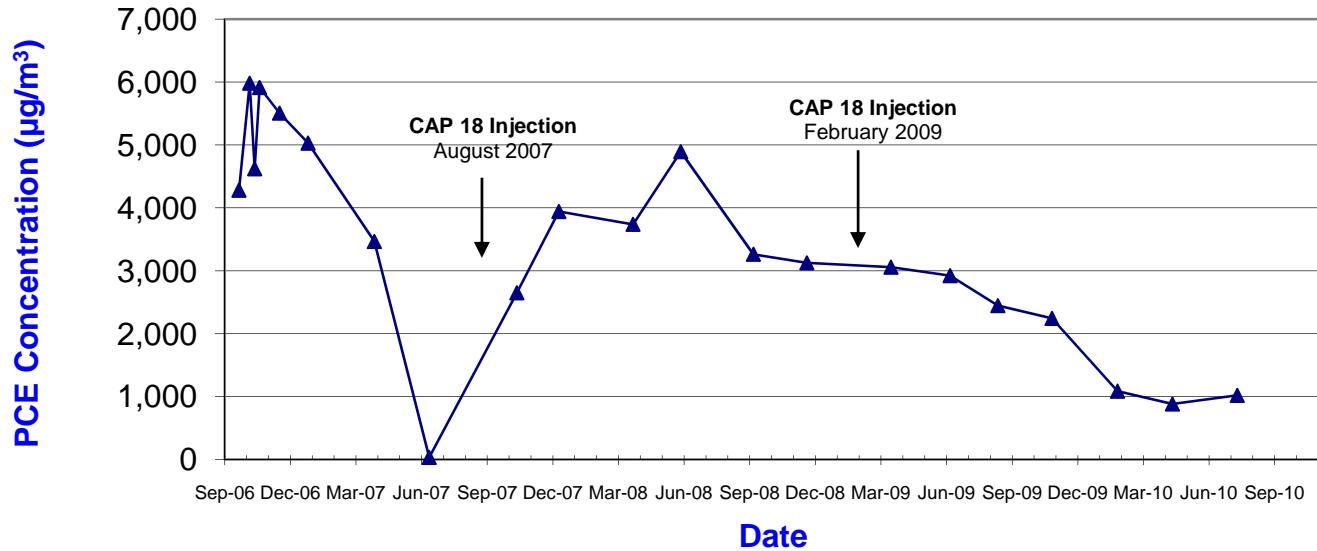
Sample Location	
PCE	Tetrachloroethene ($\mu\text{g}/\text{m}^3$)
TCE	Trichloroethene ($\mu\text{g}/\text{m}^3$)
cis-DCE	cis-1,2-Dichloroethene ($\mu\text{g}/\text{m}^3$)
VC	Vinyl chloride ($\mu\text{g}/\text{m}^3$)

Note: ND = Not Detected

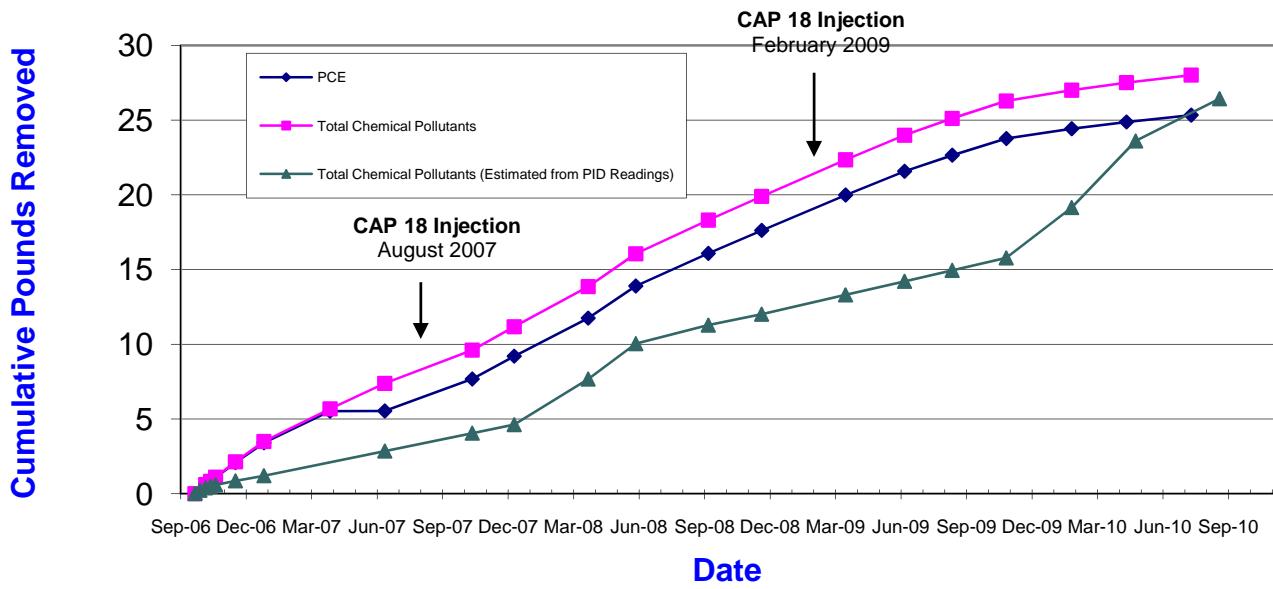
Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002



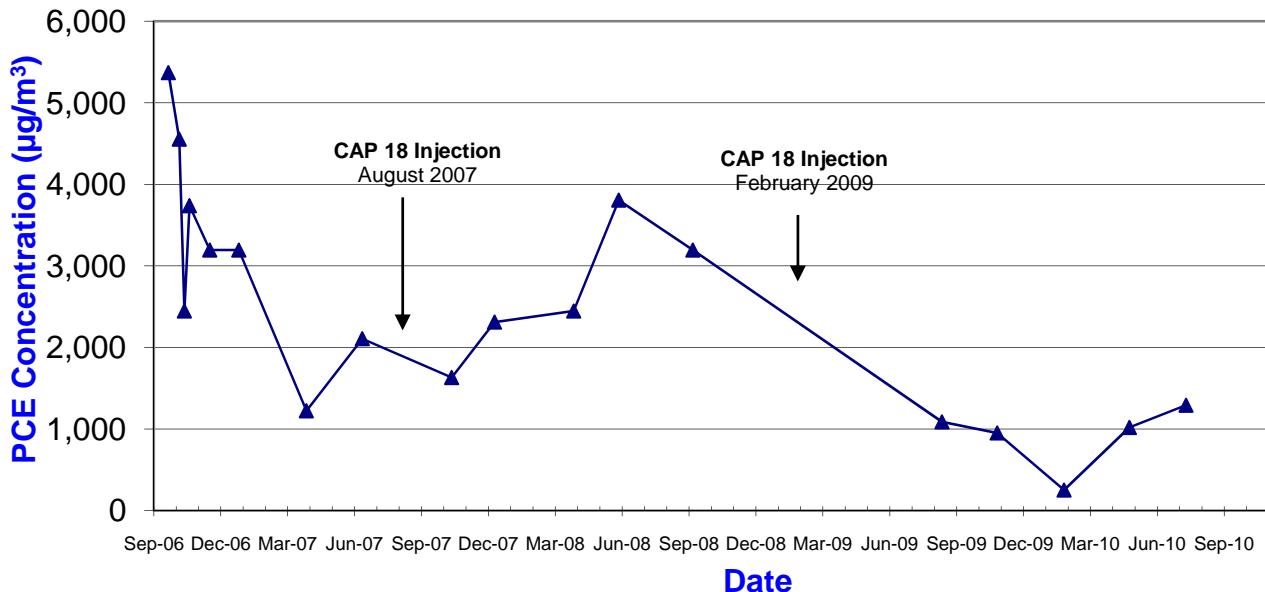
**PCE Vapor Concentrations Trend -
Village Pantry Vapor Mitigation System (B1)**



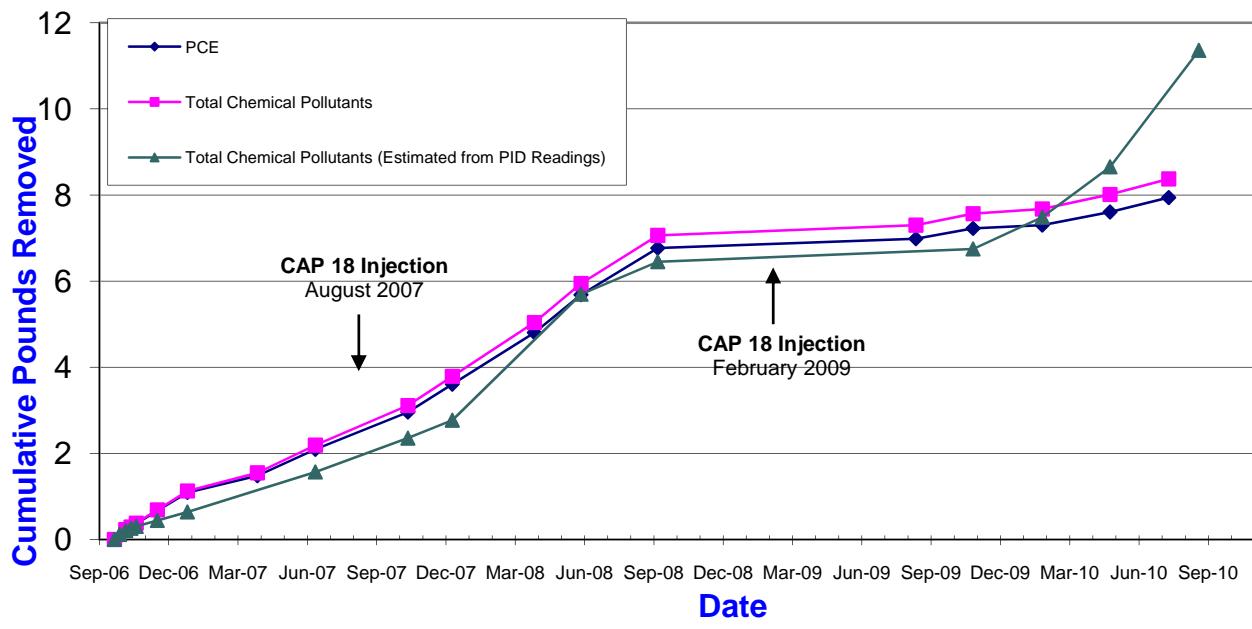
**Chemical Pounds Removed -
Village Pantry Vapor Mitigation System (B1)**



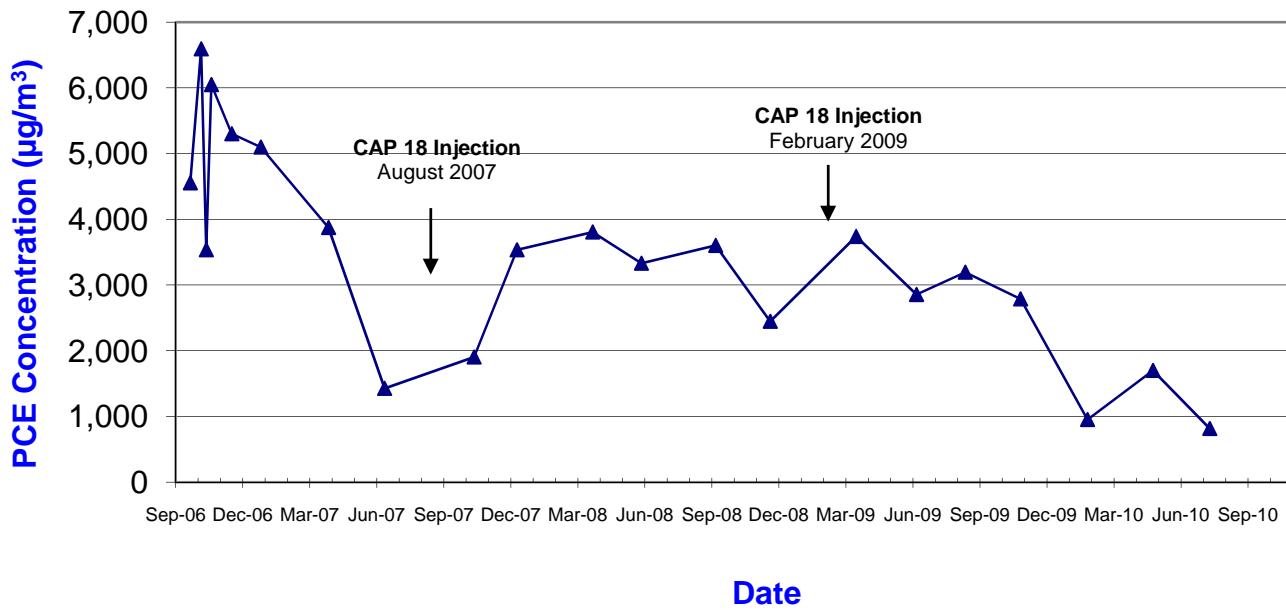
**PCE Vapor Concentrations Trend -
Handicap Space Vapor Mitigation System (B2)**



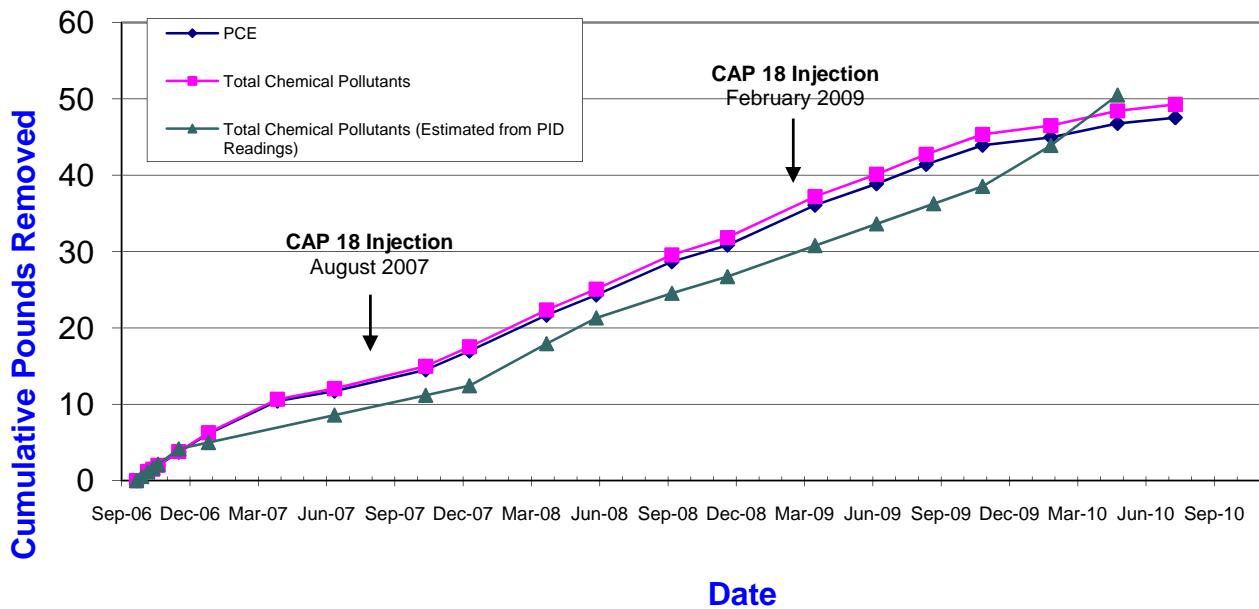
**Chemical Pounds Removed -
Handicap Space Vapor Mitigation System (B2)**



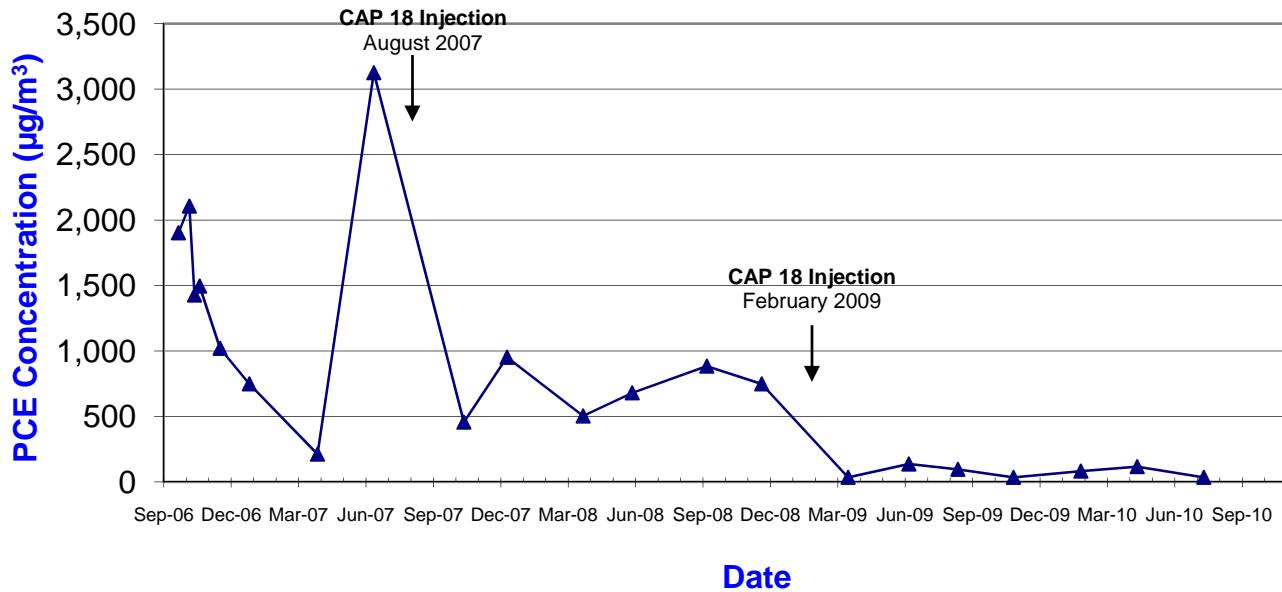
**PCE Vapor Concentrations Trend -
Mexican Store Vapor Mitigation System (B3)**



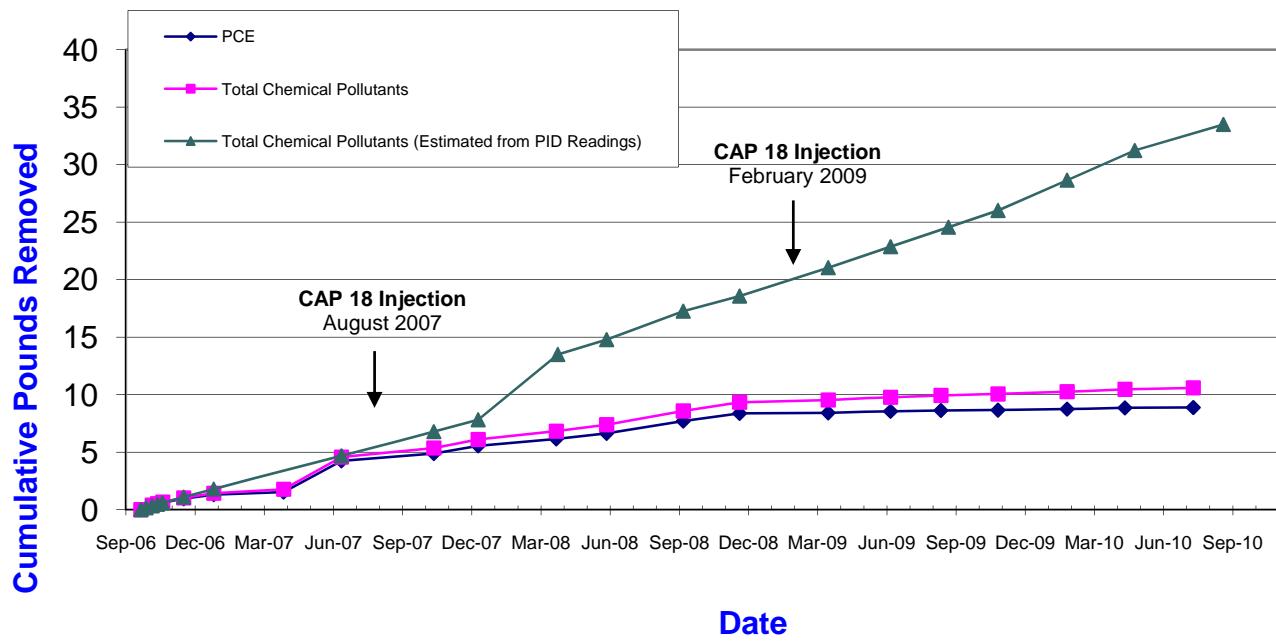
**Chemical Pounds Removed -
Mexican Store Vapor Mitigation System (B3)**



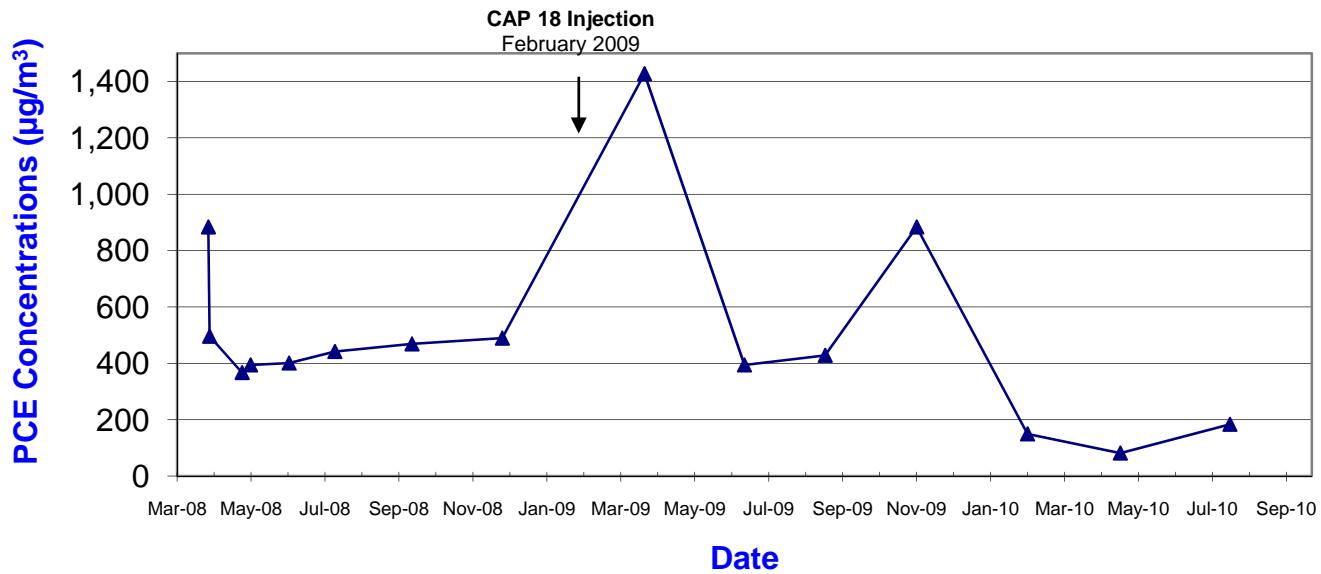
**PCE Vapor Concentrations Trend -
Laundromat Vapor Mitigation System (B4)**



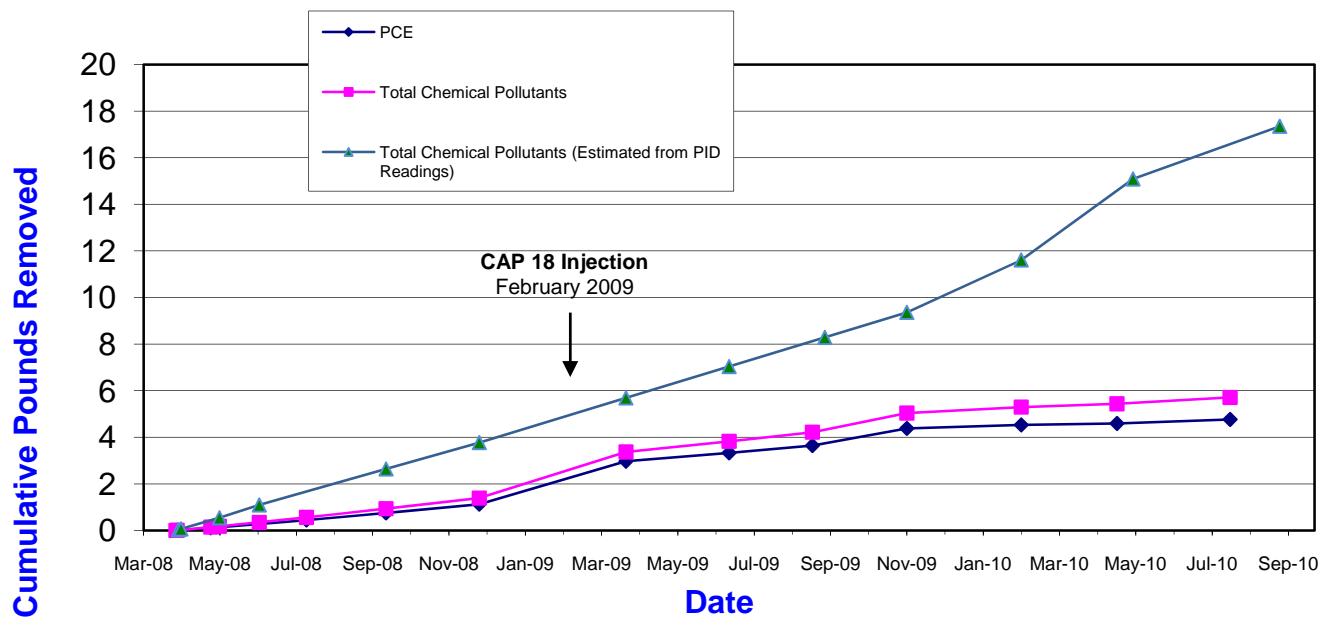
**Chemical Pounds Removed -
Laundromat Vapor Mitigation System (B4)**



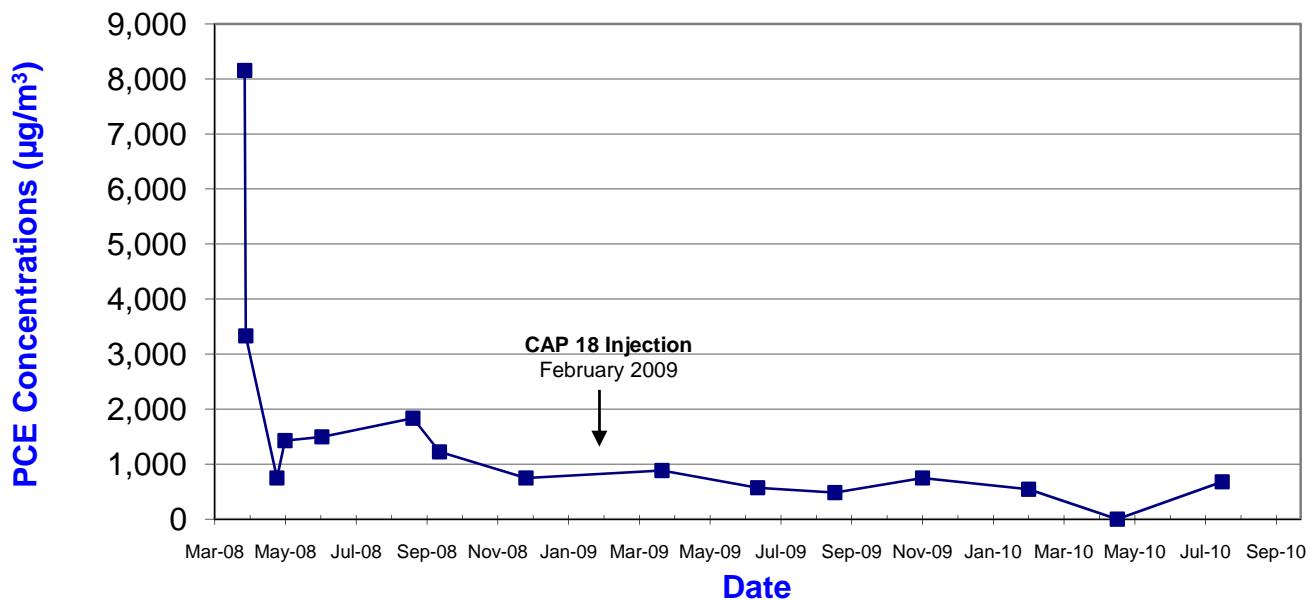
**PCE Vapor Concentrations Trend -
Apartment Building 1 Vapor Mitigation System (B5)**



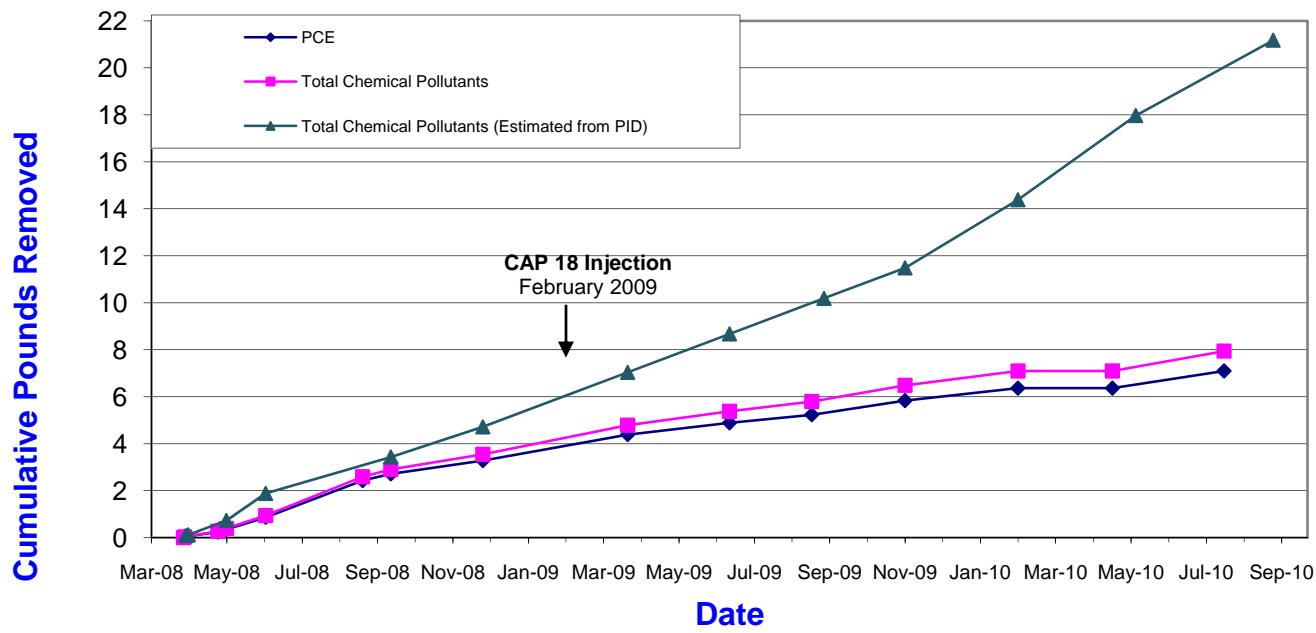
**Chemical Pounds Removed -
Apartment Building 1 Vapor Mitigation System (B5)**



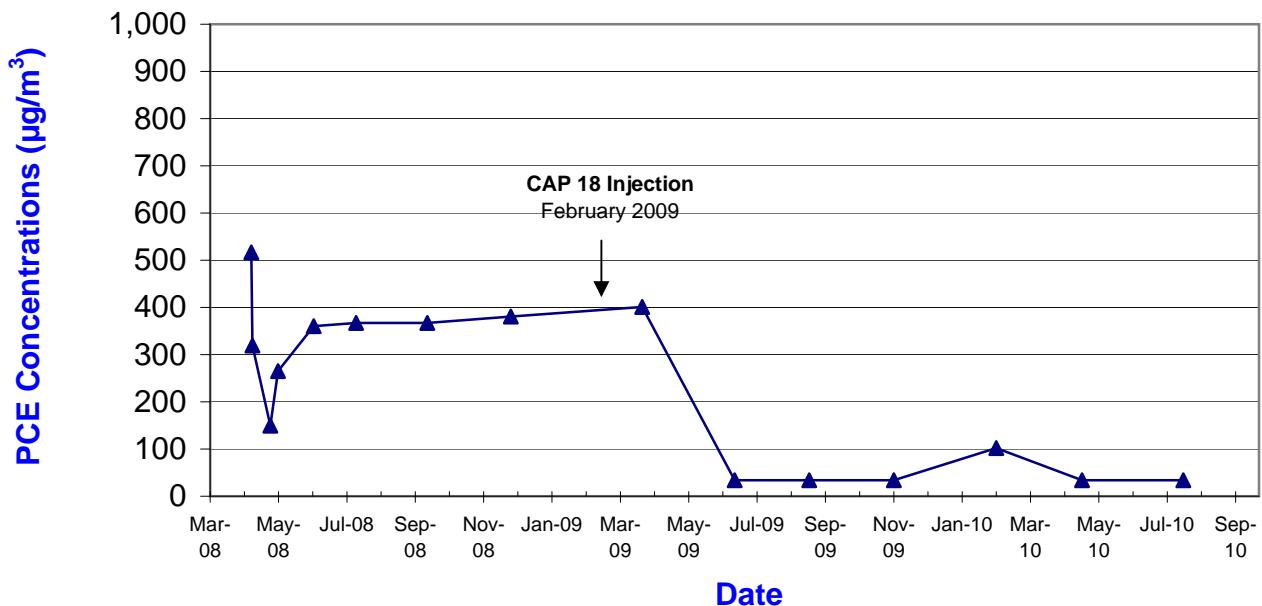
**PCE Vapor Concentrations Trend -
Apartment Building 6 Vapor Mitigation System (B6)**



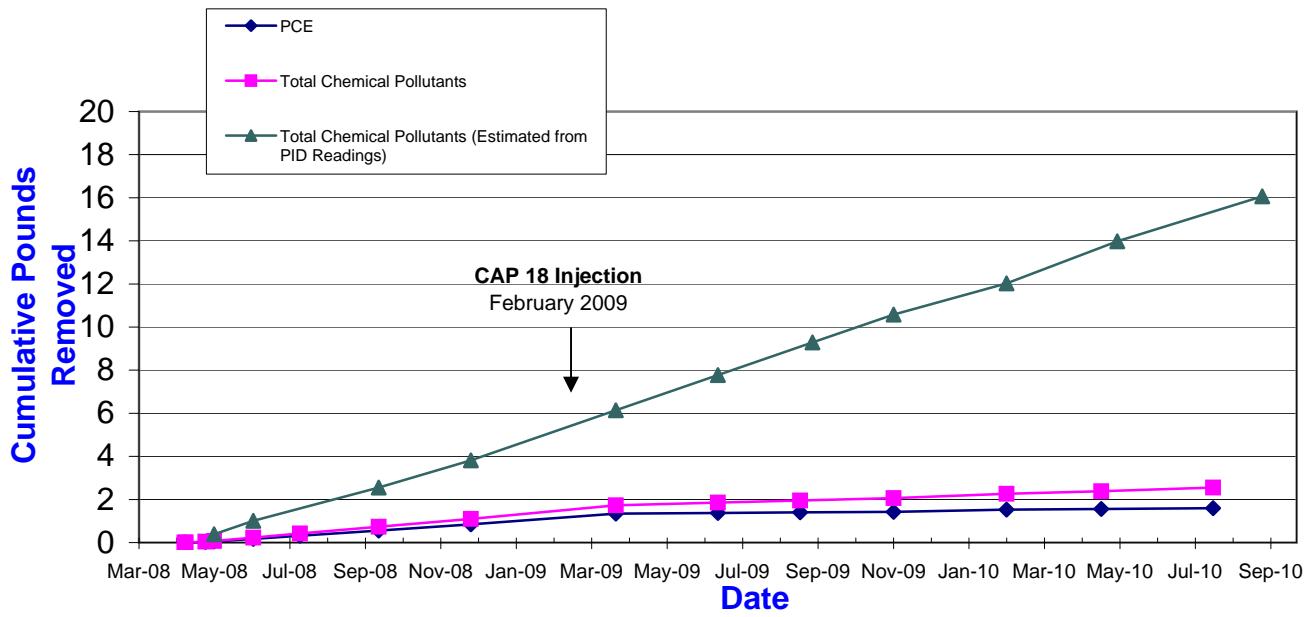
**Chemical Pounds Removed -
Apartment Building 6 Vapor Mitigation System (B6)**



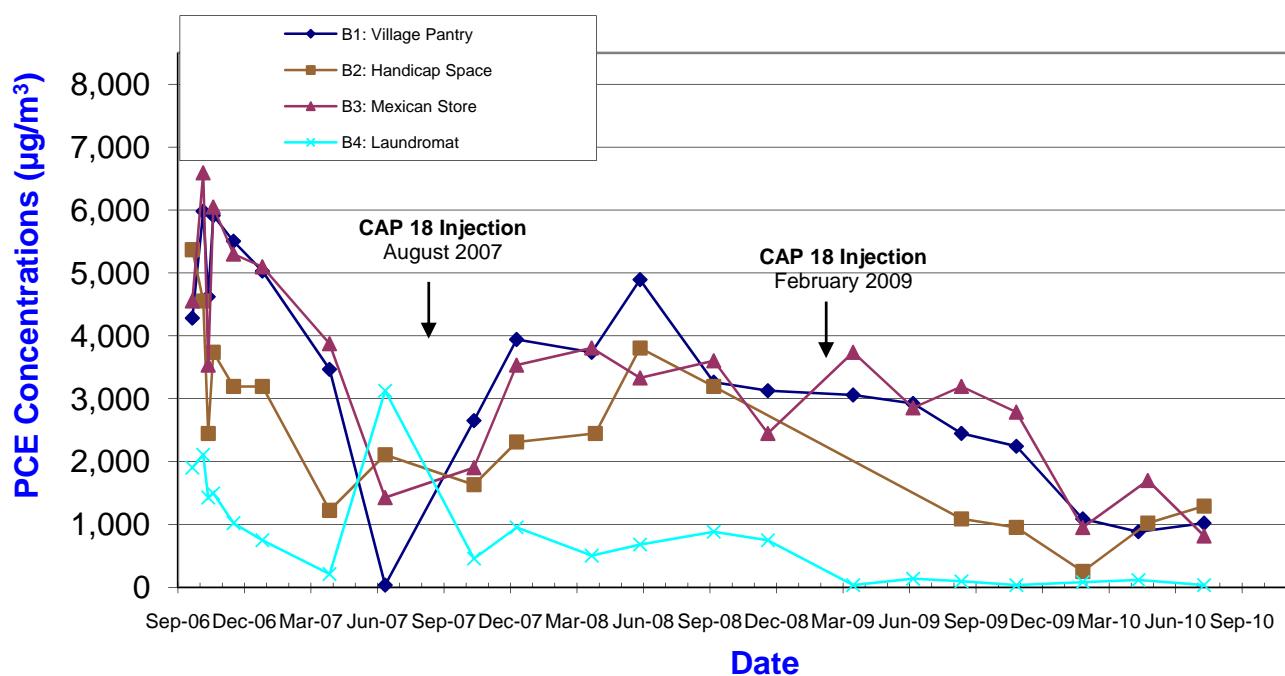
**PCE Vapor Concentrations Trend -
Apartment Building 10 Vapor Mitigation System (B7)**



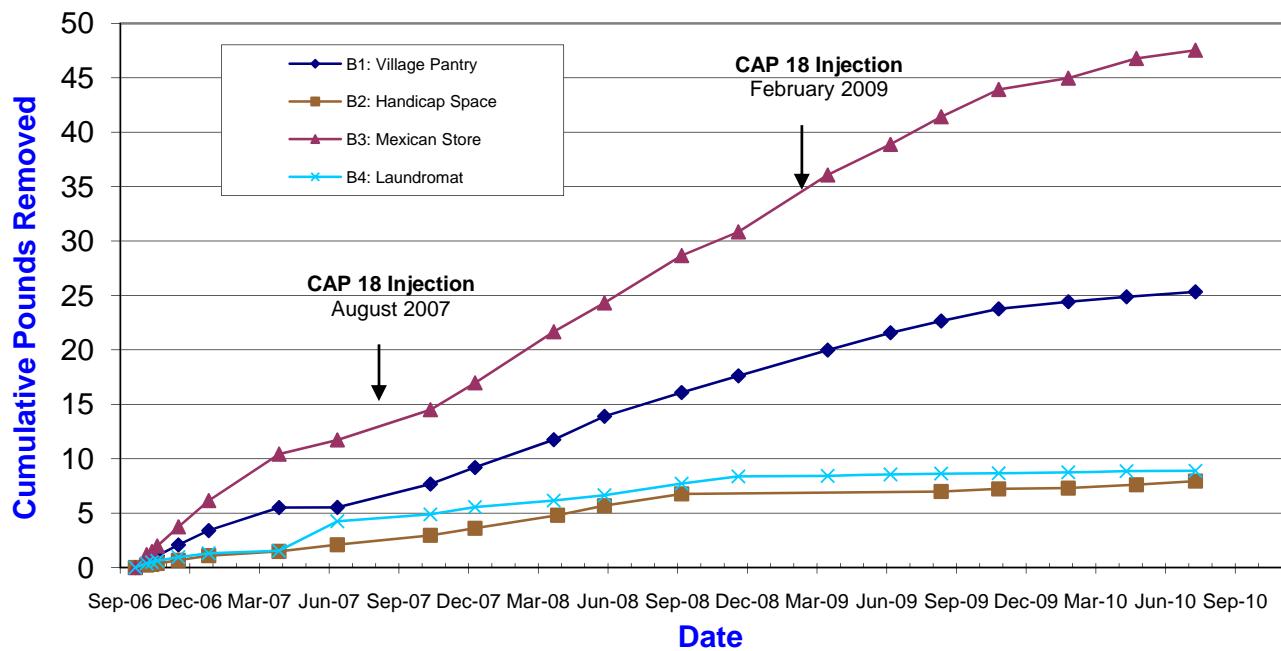
**Chemical Pounds Removed -
Apartment Building 10 Vapor Mitigation System (B7)**



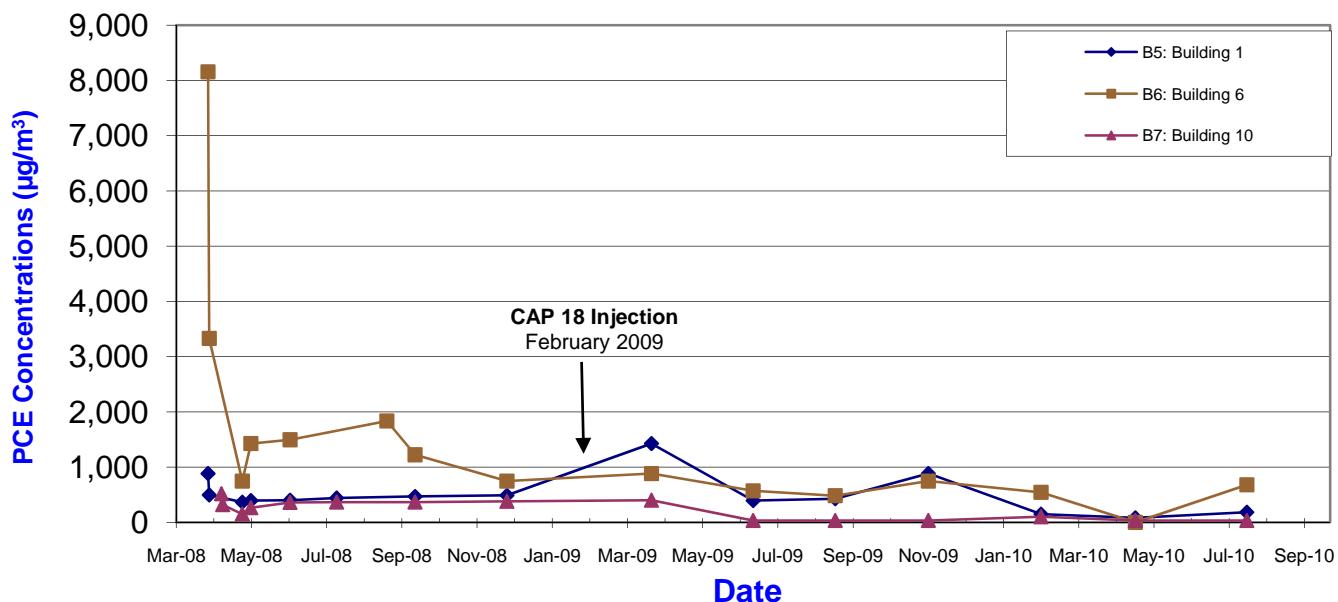
PCE Concentrations Trend - Plaza Vapor Mitigation Systems (B1-B4)



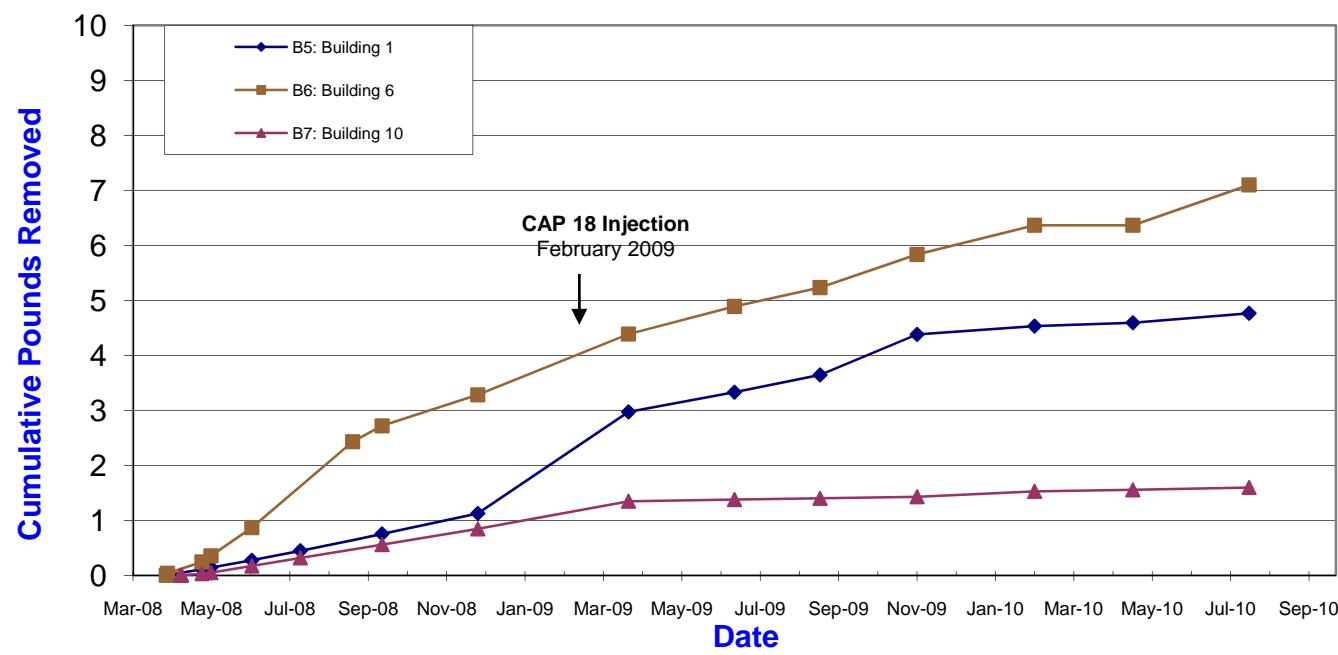
PCE Pounds Removed - Plaza Vapor Mitigation Systems (B1-B4)



**PCE Concentrations Trend -
Apartment Vapor Mitigation Systems (B5-B7)**



**PCE Pounds Removed -
Apartment Vapor Mitigation Systems (B5-B7)**



APPENDIX A

Lab Analytical Results

August 06, 2010

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5039630

Dear Ms. Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 26

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SAMPLE SUMMARY

Project: MI Plaza M01046

Pace Project No.: 5039630

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5039630001	MMW-P-04	Water	07/22/10 13:55	07/23/10 10:50
5039630002	MMW-P-07	Water	07/22/10 10:44	07/23/10 10:50
5039630003	MMW-P-08	Water	07/22/10 10:22	07/23/10 10:50
5039630004	MMW-P-09S	Water	07/22/10 12:07	07/23/10 10:50
5039630005	MMW-P-09D	Water	07/22/10 11:15	07/23/10 10:50
5039630006	MMW-P-10D	Water	07/22/10 10:04	07/23/10 10:50
5039630007	MW-168D	Water	07/22/10 14:36	07/23/10 10:50
5039630008	MMW-C-01	Water	07/22/10 12:50	07/23/10 10:50
5039630009	MMW-C-02	Water	07/22/10 12:36	07/23/10 10:50
5039630010	Dup 1	Water	07/22/10 08:00	07/23/10 10:50
5039630011	Eq Blank	Water	07/23/10 09:00	07/23/10 10:50
5039630012	Trip Blank	Water	07/23/10 08:00	07/23/10 10:50
5039630013	MW-171D	Water	07/22/10 15:17	07/23/10 10:50

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5039630

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5039630001	MMW-P-04	EPA 8260	JLF	20
5039630002	MMW-P-07	EPA 8260	JLF	20
5039630003	MMW-P-08	SM 2340B	FRW	1
		EPA 8260	JLF	20
		EPA 353.2	DDM	1
		ASTM D516-90,02	TPD	1
5039630004	MMW-P-09S	EPA 8260	JLF	20
		EPA 353.2	DDM	1
		ASTM D516-90,02	TPD	1
5039630005	MMW-P-09D	EPA 8260	JLF	20
5039630006	MMW-P-10D	EPA 8260	JLF	20
5039630007	MW-168D	EPA 8260	JLF	20
		EPA 353.2	DDM	1
		ASTM D516-90,02	TPD	1
5039630008	MMW-C-01	EPA 8260	JLF	20
5039630009	MMW-C-02	EPA 8260	JLF	20
5039630010	Dup 1	SM 2340B	FRW	1
		EPA 8260	JLF	20
		EPA 353.2	DDM	1
		ASTM D516-90,02	TPD	1
5039630011	Eq Blank	EPA 8260	JLF	20
5039630012	Trip Blank	EPA 8260	JLF	20
5039630013	MW-171D	EPA 8260	JLF	20

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-P-04	Lab ID: 5039630001	Collected: 07/22/10 13:55	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/26/10 20:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/26/10 20:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/26/10 20:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/26/10 20:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/26/10 20:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/26/10 20:52	75-35-4	
cis-1,2-Dichloroethene	189	ug/L	5.0	1		07/26/10 20:52	156-59-2	
trans-1,2-Dichloroethene	12.9	ug/L	5.0	1		07/26/10 20:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/26/10 20:52	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/26/10 20:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/26/10 20:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/26/10 20:52	127-18-4	
Toluene	ND	ug/L	5.0	1		07/26/10 20:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/26/10 20:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/26/10 20:52	79-01-6	
Vinyl chloride	402	ug/L	100	50		07/26/10 21:22	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/26/10 20:52	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		07/26/10 20:52	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		07/26/10 20:52	460-00-4	
Toluene-d8 (S)	92 %		80-116	1		07/26/10 20:52	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-P-07	Lab ID: 5039630002	Collected: 07/22/10 10:44	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/26/10 23:54	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/26/10 23:54	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/26/10 23:54	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/26/10 23:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/26/10 23:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/26/10 23:54	75-35-4	
cis-1,2-Dichloroethene	247	ug/L	5.0	1		07/26/10 23:54	156-59-2	
trans-1,2-Dichloroethene	7.8	ug/L	5.0	1		07/26/10 23:54	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/26/10 23:54	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/26/10 23:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/26/10 23:54	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/26/10 23:54	127-18-4	
Toluene	ND	ug/L	5.0	1		07/26/10 23:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/26/10 23:54	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/26/10 23:54	79-01-6	
Vinyl chloride	1680	ug/L	100	50		07/27/10 00:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/26/10 23:54	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		07/26/10 23:54	1868-53-7	
4-Bromofluorobenzene (S)	95 %		70-126	1		07/26/10 23:54	460-00-4	
Toluene-d8 (S)	90 %		80-116	1		07/26/10 23:54	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-P-08	Lab ID: 5039630003	Collected: 07/22/10 10:22	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	449	mg/L	1.0	1		08/02/10 14:19		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 00:56	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 00:56	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 00:56	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 00:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 00:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 00:56	75-35-4	
cis-1,2-Dichloroethene	97.8	ug/L	5.0	1		07/27/10 00:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 00:56	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 00:56	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 00:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 00:56	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 00:56	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 00:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 00:56	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 00:56	79-01-6	
Vinyl chloride	1320	ug/L	100	50		07/27/10 01:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 00:56	1330-20-7	
Dibromofluoromethane (S)	107 %		80-123	1		07/27/10 00:56	1868-53-7	
4-Bromofluorobenzene (S)	91 %		70-126	1		07/27/10 00:56	460-00-4	
Toluene-d8 (S)	84 %		80-116	1		07/27/10 00:56	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/23/10 16:38		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	34.0	mg/L	5.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-P-09S	Lab ID: 5039630004	Collected: 07/22/10 12:07	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 01:57	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 01:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 01:57	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 01:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 01:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 01:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 01:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 01:57	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 01:57	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 01:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 01:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 01:57	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 01:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 01:57	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 01:57	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		07/27/10 01:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 01:57	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		07/27/10 01:57	1868-53-7	
4-Bromofluorobenzene (S)	91 %		70-126	1		07/27/10 01:57	460-00-4	
Toluene-d8 (S)	88 %		80-116	1		07/27/10 01:57	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.80	mg/L	0.10	1		07/23/10 16:44		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	92.4	mg/L	12.5	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-P-09D	Lab ID: 5039630005	Collected: 07/22/10 11:15	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 14:06	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 14:06	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 14:06	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 14:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 14:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 14:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 14:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 14:06	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 14:06	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 14:06	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 14:06	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 14:06	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 14:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 14:06	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 14:06	79-01-6	
Vinyl chloride	81.2	ug/L	2.0	1		07/27/10 14:06	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 14:06	1330-20-7	
Dibromofluoromethane (S)	99 %		80-123	1		07/27/10 14:06	1868-53-7	
4-Bromofluorobenzene (S)	95 %		70-126	1		07/27/10 14:06	460-00-4	
Toluene-d8 (S)	95 %		80-116	1		07/27/10 14:06	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-P-10D	Lab ID: 5039630006	Collected: 07/22/10 10:04	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 03:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 03:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 03:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 03:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 03:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 03:58	75-35-4	
cis-1,2-Dichloroethene	120	ug/L	5.0	1		07/27/10 03:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 03:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 03:58	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 03:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 03:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 03:58	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 03:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 03:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 03:58	79-01-6	
Vinyl chloride	865	ug/L	10.0	5		07/27/10 04:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 03:58	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		07/27/10 03:58	1868-53-7	
4-Bromofluorobenzene (S)	86 %		70-126	1		07/27/10 03:58	460-00-4	
Toluene-d8 (S)	96 %		80-116	1		07/27/10 03:58	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5039630

Sample: MW-168D	Lab ID: 5039630007	Collected: 07/22/10 14:36	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 04:59	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 04:59	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 04:59	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 04:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 04:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 04:59	75-35-4	
cis-1,2-Dichloroethene	6.0	ug/L	5.0	1		07/27/10 04:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 04:59	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 04:59	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 04:59	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 04:59	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 04:59	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 04:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 04:59	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 04:59	79-01-6	
Vinyl chloride	122	ug/L	2.0	1		07/27/10 04:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 04:59	1330-20-7	
Dibromofluoromethane (S)	105 %		80-123	1		07/27/10 04:59	1868-53-7	
4-Bromofluorobenzene (S)	94 %		70-126	1		07/27/10 04:59	460-00-4	
Toluene-d8 (S)	88 %		80-116	1		07/27/10 04:59	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/23/10 16:45		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	82.2	mg/L	25.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-C-01	Lab ID: 5039630008	Collected: 07/22/10 12:50	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 05:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 05:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 05:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 05:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 05:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 05:30	75-35-4	
cis-1,2-Dichloroethene	22.4	ug/L	5.0	1		07/27/10 05:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 05:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 05:30	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 05:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 05:30	91-20-3	
Tetrachloroethene	40.9	ug/L	5.0	1		07/27/10 05:30	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 05:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 05:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 05:30	79-01-6	
Vinyl chloride	8.1	ug/L	2.0	1		07/27/10 05:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 05:30	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		07/27/10 05:30	1868-53-7	
4-Bromofluorobenzene (S)	92 %		70-126	1		07/27/10 05:30	460-00-4	
Toluene-d8 (S)	87 %		80-116	1		07/27/10 05:30	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MMW-C-02	Lab ID: 5039630009	Collected: 07/22/10 12:36	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 06:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 06:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 06:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 06:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 06:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 06:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 06:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 06:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 06:30	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 06:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 06:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 06:30	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 06:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 06:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 06:30	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		07/27/10 06:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 06:30	1330-20-7	
Dibromofluoromethane (S)	104 %		80-123	1		07/27/10 06:30	1868-53-7	
4-Bromofluorobenzene (S)	90 %		70-126	1		07/27/10 06:30	460-00-4	
Toluene-d8 (S)	86 %		80-116	1		07/27/10 06:30	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5039630

Sample: Dup 1	Lab ID: 5039630010	Collected: 07/22/10 08:00	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	464	mg/L	1.0	1		08/02/10 14:24		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 07:01	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 07:01	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 07:01	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 07:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 07:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 07:01	75-35-4	
cis-1,2-Dichloroethene	86.1	ug/L	5.0	1		07/27/10 07:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 07:01	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 07:01	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 07:01	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 07:01	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 07:01	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 07:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 07:01	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 07:01	79-01-6	
Vinyl chloride	1310	ug/L	100	50		07/27/10 07:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 07:01	1330-20-7	
Dibromofluoromethane (S)	106 %		80-123	1		07/27/10 07:01	1868-53-7	
4-Bromofluorobenzene (S)	91 %		70-126	1		07/27/10 07:01	460-00-4	
Toluene-d8 (S)	93 %		80-116	1		07/27/10 07:01	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/23/10 16:37		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	33.0	mg/L	5.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: Eq Blank	Lab ID: 5039630011	Collected: 07/23/10 09:00	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 08:02	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 08:02	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 08:02	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 08:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 08:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 08:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 08:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 08:02	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 08:02	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 08:02	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 08:02	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 08:02	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 08:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 08:02	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 08:02	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		07/27/10 08:02	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 08:02	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		07/27/10 08:02	1868-53-7	
4-Bromofluorobenzene (S)	91 %		70-126	1		07/27/10 08:02	460-00-4	
Toluene-d8 (S)	89 %		80-116	1		07/27/10 08:02	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: Trip Blank	Lab ID: 5039630012	Collected: 07/23/10 08:00	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 08:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 08:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 08:32	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 08:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 08:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 08:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 08:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 08:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 08:32	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 08:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 08:32	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 08:32	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 08:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 08:32	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 08:32	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		07/27/10 08:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 08:32	1330-20-7	
Dibromofluoromethane (S)	104 %		80-123	1		07/27/10 08:32	1868-53-7	
4-Bromofluorobenzene (S)	90 %		70-126	1		07/27/10 08:32	460-00-4	
Toluene-d8 (S)	88 %		80-116	1		07/27/10 08:32	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039630

Sample: MW-171D	Lab ID: 5039630013	Collected: 07/22/10 15:17	Received: 07/23/10 10:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 09:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 09:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 09:03	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 09:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 09:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 09:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 09:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 09:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 09:03	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 09:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 09:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 09:03	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 09:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 09:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 09:03	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		07/27/10 09:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 09:03	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		07/27/10 09:03	1868-53-7	
4-Bromofluorobenzene (S)	91 %		70-126	1		07/27/10 09:03	460-00-4	
Toluene-d8 (S)	88 %		80-116	1		07/27/10 09:03	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

QC Batch:	MSV/25599	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5039630001		

METHOD BLANK: 460220 Matrix: Water

Associated Lab Samples: 5039630001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/26/10 11:21	
1,1-Dichloroethane	ug/L	ND	5.0	07/26/10 11:21	
1,1-Dichloroethene	ug/L	ND	5.0	07/26/10 11:21	
1,2-Dichloroethane	ug/L	ND	5.0	07/26/10 11:21	
Benzene	ug/L	ND	5.0	07/26/10 11:21	
Carbon tetrachloride	ug/L	ND	5.0	07/26/10 11:21	
Chloroform	ug/L	ND	5.0	07/26/10 11:21	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/26/10 11:21	
Ethylbenzene	ug/L	ND	5.0	07/26/10 11:21	
Methylene chloride	ug/L	ND	5.0	07/26/10 11:21	
Naphthalene	ug/L	ND	5.0	07/26/10 11:21	
Tetrachloroethene	ug/L	ND	5.0	07/26/10 11:21	
Toluene	ug/L	ND	5.0	07/26/10 11:21	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/26/10 11:21	
Trichloroethene	ug/L	ND	5.0	07/26/10 11:21	
Vinyl chloride	ug/L	ND	2.0	07/26/10 11:21	
Xylene (Total)	ug/L	ND	10.0	07/26/10 11:21	
4-Bromofluorobenzene (S)	%	93	70-126	07/26/10 11:21	
Dibromofluoromethane (S)	%	99	80-123	07/26/10 11:21	
Toluene-d8 (S)	%	91	80-116	07/26/10 11:21	

LABORATORY CONTROL SAMPLE: 460221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.8	98	69-136	
1,1-Dichloroethane	ug/L	50	50.9	102	67-133	
1,1-Dichloroethene	ug/L	50	57.3	115	63-128	
1,2-Dichloroethane	ug/L	50	49.1	98	69-139	
Benzene	ug/L	50	48.1	96	78-127	
Carbon tetrachloride	ug/L	50	49.4	99	62-143	
Chloroform	ug/L	50	48.9	98	74-131	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	74-128	
Ethylbenzene	ug/L	50	48.3	97	81-126	
Methylene chloride	ug/L	50	45.4	91	32-164	
Naphthalene	ug/L	50	44.5	89	61-135	
Tetrachloroethene	ug/L	50	45.4	91	60-119	
Toluene	ug/L	50	48.8	98	75-129	
trans-1,2-Dichloroethene	ug/L	50	52.5	105	71-126	
Trichloroethene	ug/L	50	48.8	98	74-130	
Vinyl chloride	ug/L	50	57.6	115	55-141	
Xylene (Total)	ug/L	150	148	99	76-132	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

LABORATORY CONTROL SAMPLE: 460221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			103	70-126	
Dibromofluoromethane (S)	%			104	80-123	
Toluene-d8 (S)	%			103	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 460222 460223

Parameter	Units	5039657001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	Qual
			Spike Conc.	Spike Conc.						RPD	
1,1,1-Trichloroethane	ug/L	ND	50	50	54.6	57.3	109	115	64-143	5	20
1,1-Dichloroethane	ug/L	ND	50	50	58.8	60.3	118	121	68-139	2	20
1,1-Dichloroethene	ug/L	ND	50	50	66.7	69.3	133	139	55-140	4	20
1,2-Dichloroethane	ug/L	ND	50	50	57.5	59.6	115	119	63-148	4	20
Benzene	ug/L	ND	50	50	54.9	57.0	110	114	63-141	4	20
Carbon tetrachloride	ug/L	ND	50	50	55.1	58.3	110	117	54-145	6	20
Chloroform	ug/L	ND	50	50	57.0	58.7	114	117	67-134	3	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	60.5	62.3	121	125	65-132	3	20
Ethylbenzene	ug/L	ND	50	50	51.0	54.1	102	108	44-151	6	20
Methylene chloride	ug/L	ND	50	50	56.1	58.5	112	117	46-154	4	20
Naphthalene	ug/L	ND	50	50	48.3	50.7	97	101	44-138	5	20
Tetrachloroethene	ug/L	ND	50	50	46.4	49.1	93	98	25-146	5	20
Toluene	ug/L	ND	50	50	51.5	55.1	102	109	59-142	7	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	61.3	63.8	123	128	60-137	4	20
Trichloroethene	ug/L	ND	50	50	54.0	56.2	108	112	61-137	4	20
Vinyl chloride	ug/L	ND	50	50	66.4	68.8	133	138	51-144	3	20
Xylene (Total)	ug/L	ND	150	150	156	163	104	109	44-152	5	20
4-Bromofluorobenzene (S)	%						102	102	70-126		20
Dibromofluoromethane (S)	%						109	106	80-123		20
Toluene-d8 (S)	%						99	101	80-116		20

QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

QC Batch:	MSV/25600	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5039630002, 5039630003, 5039630004, 5039630006, 5039630007, 5039630008, 5039630009, 5039630010, 5039630011, 5039630012, 5039630013		

METHOD BLANK:	460224	Matrix:	Water
Associated Lab Samples:	5039630002, 5039630003, 5039630004, 5039630006, 5039630007, 5039630008, 5039630009, 5039630010, 5039630011, 5039630012, 5039630013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/26/10 23:24	
1,1-Dichloroethane	ug/L	ND	5.0	07/26/10 23:24	
1,1-Dichloroethene	ug/L	ND	5.0	07/26/10 23:24	
1,2-Dichloroethane	ug/L	ND	5.0	07/26/10 23:24	
Benzene	ug/L	ND	5.0	07/26/10 23:24	
Carbon tetrachloride	ug/L	ND	5.0	07/26/10 23:24	
Chloroform	ug/L	ND	5.0	07/26/10 23:24	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/26/10 23:24	
Ethylbenzene	ug/L	ND	5.0	07/26/10 23:24	
Methylene chloride	ug/L	ND	5.0	07/26/10 23:24	
Naphthalene	ug/L	ND	5.0	07/26/10 23:24	
Tetrachloroethene	ug/L	ND	5.0	07/26/10 23:24	
Toluene	ug/L	ND	5.0	07/26/10 23:24	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/26/10 23:24	
Trichloroethene	ug/L	ND	5.0	07/26/10 23:24	
Vinyl chloride	ug/L	ND	2.0	07/26/10 23:24	
Xylene (Total)	ug/L	ND	10.0	07/26/10 23:24	
4-Bromofluorobenzene (S)	%	95	70-126	07/26/10 23:24	
Dibromofluoromethane (S)	%	99	80-123	07/26/10 23:24	
Toluene-d8 (S)	%	91	80-116	07/26/10 23:24	

LABORATORY CONTROL SAMPLE: 460225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.6	93	69-136	
1,1-Dichloroethane	ug/L	50	49.4	99	67-133	
1,1-Dichloroethene	ug/L	50	54.8	110	63-128	
1,2-Dichloroethane	ug/L	50	48.9	98	69-139	
Benzene	ug/L	50	46.9	94	78-127	
Carbon tetrachloride	ug/L	50	46.6	93	62-143	
Chloroform	ug/L	50	47.8	96	74-131	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	74-128	
Ethylbenzene	ug/L	50	47.7	95	81-126	
Methylene chloride	ug/L	50	43.9	88	32-164	
Naphthalene	ug/L	50	45.2	90	61-135	
Tetrachloroethene	ug/L	50	43.1	86	60-119	
Toluene	ug/L	50	47.0	94	75-129	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	71-126	
Trichloroethene	ug/L	50	47.9	96	74-130	
Vinyl chloride	ug/L	50	53.2	106	55-141	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

LABORATORY CONTROL SAMPLE: 460225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	76-132	
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			101	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 460226 460227

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		5039630004	Result	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	ND	50	50	50.2	60.0	100	120	64-143	18	20
1,1-Dichloroethane	ug/L	ND	50	50	56.3	56.4	113	113	68-139	.1	20
1,1-Dichloroethene	ug/L	ND	50	50	61.8	88.8	124	178	55-140	36	20 M0,R1
1,2-Dichloroethane	ug/L	ND	50	50	56.1	66.2	112	132	63-148	17	20
Benzene	ug/L	ND	50	50	50.0	46.5	100	93	63-141	7	20
Carbon tetrachloride	ug/L	ND	50	50	49.9	55.2	100	110	54-145	10	20
Chloroform	ug/L	ND	50	50	53.7	61.4	107	123	67-134	13	20
cis-1,2-Dichloroethylene	ug/L	ND	50	50	56.2	59.9	112	120	65-132	6	20
Ethylbenzene	ug/L	ND	50	50	37.6	38.7	75	77	44-151	3	20
Methylene chloride	ug/L	ND	50	50	51.3	77.9	103	156	46-154	41	20 M0,R1
Naphthalene	ug/L	ND	50	50	42.2	48.4	84	97	44-138	14	20
Tetrachloroethylene	ug/L	ND	50	50	36.8	36.0	74	72	25-146	2	20
Toluene	ug/L	ND	50	50	44.2	37.8	88	76	59-142	16	20
trans-1,2-Dichloroethylene	ug/L	ND	50	50	54.6	78.6	109	157	60-137	36	20 M0,R1
Trichloroethylene	ug/L	ND	50	50	46.5	47.6	93	95	61-137	2	20
Vinyl chloride	ug/L	ND	50	50	61.4	89.1	123	178	51-144	37	20 M0,R1
Xylene (Total)	ug/L	ND	150	150	114	126	76	84	44-152	10	20
4-Bromofluorobenzene (S)	%						104	108	70-126		20
Dibromofluoromethane (S)	%						107	118	80-123		20
Toluene-d8 (S)	%						104	86	80-116		20

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

QC Batch:	MSV/25659	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5039630005		

METHOD BLANK: 461072 Matrix: Water

Associated Lab Samples: 5039630005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/27/10 11:36	
1,1-Dichloroethane	ug/L	ND	5.0	07/27/10 11:36	
1,1-Dichloroethene	ug/L	ND	5.0	07/27/10 11:36	
1,2-Dichloroethane	ug/L	ND	5.0	07/27/10 11:36	
Benzene	ug/L	ND	5.0	07/27/10 11:36	
Carbon tetrachloride	ug/L	ND	5.0	07/27/10 11:36	
Chloroform	ug/L	ND	5.0	07/27/10 11:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/27/10 11:36	
Ethylbenzene	ug/L	ND	5.0	07/27/10 11:36	
Methylene chloride	ug/L	ND	5.0	07/27/10 11:36	
Naphthalene	ug/L	ND	5.0	07/27/10 11:36	
Tetrachloroethene	ug/L	ND	5.0	07/27/10 11:36	
Toluene	ug/L	ND	5.0	07/27/10 11:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/27/10 11:36	
Trichloroethene	ug/L	ND	5.0	07/27/10 11:36	
Vinyl chloride	ug/L	ND	2.0	07/27/10 11:36	
Xylene (Total)	ug/L	ND	10.0	07/27/10 11:36	
4-Bromofluorobenzene (S)	%	92	70-126	07/27/10 11:36	
Dibromofluoromethane (S)	%	100	80-123	07/27/10 11:36	
Toluene-d8 (S)	%	91	80-116	07/27/10 11:36	

LABORATORY CONTROL SAMPLE: 461073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.9	100	69-136	
1,1-Dichloroethane	ug/L	50	52.2	104	67-133	
1,1-Dichloroethene	ug/L	50	57.9	116	63-128	
1,2-Dichloroethane	ug/L	50	51.4	103	69-139	
Benzene	ug/L	50	49.5	99	78-127	
Carbon tetrachloride	ug/L	50	51.3	103	62-143	
Chloroform	ug/L	50	50.8	102	74-131	
cis-1,2-Dichloroethene	ug/L	50	53.3	107	74-128	
Ethylbenzene	ug/L	50	51.1	102	81-126	
Methylene chloride	ug/L	50	47.1	94	32-164	
Naphthalene	ug/L	50	48.0	96	61-135	
Tetrachloroethene	ug/L	50	45.2	90	60-119	
Toluene	ug/L	50	48.2	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	71-126	
Trichloroethene	ug/L	50	50.8	102	74-130	
Vinyl chloride	ug/L	50	55.7	111	55-141	
Xylene (Total)	ug/L	150	154	103	76-132	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

LABORATORY CONTROL SAMPLE: 461073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			104	80-123	
Toluene-d8 (S)	%			98	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 461074 461075

Parameter	Units	5039612049 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	54.9	56.5	110	113	64-143	3	20	
1,1-Dichloroethane	ug/L	ND	50	50	59.8	60.8	120	122	68-139	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	68.7	70.4	137	141	55-140	2	20	M0
1,2-Dichloroethane	ug/L	ND	50	50	59.1	59.6	118	119	63-148	.7	20	
Benzene	ug/L	ND	50	50	54.5	55.2	109	110	63-141	1	20	
Carbon tetrachloride	ug/L	ND	50	50	55.7	57.1	111	114	54-145	2	20	
Chloroform	ug/L	ND	50	50	58.9	59.3	116	117	67-134	.8	20	
cis-1,2-Dichloroethene	ug/L	26.3	50	50	88.2	88.6	124	125	65-132	.4	20	
Ethylbenzene	ug/L	ND	50	50	45.6	46.1	91	92	44-151	1	20	
Methylene chloride	ug/L	ND	50	50	59.0	59.7	118	119	46-154	1	20	
Naphthalene	ug/L	ND	50	50	45.1	46.3	90	93	44-138	3	20	
Tetrachloroethene	ug/L	144	50	50	175	173	63	58	25-146	1	20	
Toluene	ug/L	ND	50	50	50.0	51.4	100	103	59-142	3	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	62.0	62.6	124	125	60-137	1	20	
Trichloroethene	ug/L	12.6	50	50	65.1	65.4	105	105	61-137	.4	20	
Vinyl chloride	ug/L	ND	50	50	67.5	69.0	135	138	51-144	2	20	
Xylene (Total)	ug/L	ND	150	150	138	139	92	92	44-152	.5	20	
4-Bromofluorobenzene (S)	%						104	104	70-126		20	
Dibromofluoromethane (S)	%						109	109	80-123		20	
Toluene-d8 (S)	%						102	103	80-116		20	

QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

QC Batch: WETA/5294 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 5039630003, 5039630004, 5039630007, 5039630010

METHOD BLANK: 459416 Matrix: Water

Associated Lab Samples: 5039630003, 5039630004, 5039630007, 5039630010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	07/23/10 16:35	

LABORATORY CONTROL SAMPLE: 459417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459418 459419

Parameter	Units	5039630007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.9	1.9	95	94	90-110	.5	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039630

QC Batch: WETA/5319 Analysis Method: ASTM D516-90,02

QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water

Associated Lab Samples: 5039630003, 5039630004, 5039630007, 5039630010

METHOD BLANK: 462362 Matrix: Water

Associated Lab Samples: 5039630003, 5039630004, 5039630007, 5039630010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	08/02/10 12:00	

LABORATORY CONTROL SAMPLE: 462363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462364 462365

Parameter	Units	5039585003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Sulfate	mg/L	125	200	200	370	330	122	103	75-125	11	20	

MATRIX SPIKE SAMPLE: 462366

Parameter	Units	5039613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	65.3	100	164	98	75-125	

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QUALIFIERS

Project: MI Plaza M01046

Pace Project No.: 5039630

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5039630

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5039630003	MMW-P-08	SM 2340B	ICP/5428		
5039630010	Dup 1	SM 2340B	ICP/5428		
5039630001	MMW-P-04	EPA 8260	MSV/25599		
5039630002	MMW-P-07	EPA 8260	MSV/25600		
5039630003	MMW-P-08	EPA 8260	MSV/25600		
5039630004	MMW-P-09S	EPA 8260	MSV/25600		
5039630005	MMW-P-09D	EPA 8260	MSV/25659		
5039630006	MMW-P-10D	EPA 8260	MSV/25600		
5039630007	MW-168D	EPA 8260	MSV/25600		
5039630008	MMW-C-01	EPA 8260	MSV/25600		
5039630009	MMW-C-02	EPA 8260	MSV/25600		
5039630010	Dup 1	EPA 8260	MSV/25600		
5039630011	Eq Blank	EPA 8260	MSV/25600		
5039630012	Trip Blank	EPA 8260	MSV/25600		
5039630013	MW-171D	EPA 8260	MSV/25600		
5039630003	MMW-P-08	EPA 353.2	WETA/5294		
5039630004	MMW-P-09S	EPA 353.2	WETA/5294		
5039630007	MW-168D	EPA 353.2	WETA/5294		
5039630010	Dup 1	EPA 353.2	WETA/5294		
5039630003	MMW-P-08	ASTM D516-90,02	WETA/5319		
5039630004	MMW-P-09S	ASTM D516-90,02	WETA/5319		
5039630007	MW-168D	ASTM D516-90,02	WETA/5319		
5039630010	Dup 1	ASTM D516-90,02	WETA/5319		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 5039630

Courier: FedEx UPS USPS Client Commercial Pace Other _____
 Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other foam

Thermometer Used 1 2 3 4 5 A B C D E

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.5°C

Temp should be above freezing to 6°C

Ice Visible in Sample Containers: yes no

Date and Initials of person examining contents: 07/23/10

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. <u>Nitrates</u> <u>Box</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing preservation have been pH checked? Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>pH 6.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10. <u>2 vials of manure from headpiece</u> <u>60</u>
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>158 pm</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: MM W-P, 04 has collection time of 158 pm, BD 07/23/10

Project Manager Review: J. Sawyer

Date: 7/23/10

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 2
COC ID# 13371649

Project # 5039630

Sample Line

Item	DG9H	AG1U	WG FU R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3											
2	3											
3	3											
4	3											
5	3											
6	3											
7	3											
8	3											
9	3											
10	3											
11	3											
12	3											

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	-	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VGGT	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VGGU	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassette	VSG	Headspace septa vial & HCl
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Munderk

COC PAGE 2 of 2
COC ID# 1337164

Project # 5039430

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Sample Line

Item	DG9H	AG1U	WG FU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	2												
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	BP1S	1 liter H ₂ SO4 plastic	BP1U	1 liter H ₂ SO4 amber glass	BP1V	1 liter HCl amber glass	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1T	1 liter H ₂ SO4 plastic	BP1S	1 liter H ₂ SO4 plastic	BP1U	1 liter unpreserved plastic	BP1V	1 liter Na Thiosulfate amber gl	DG9S	40mL H ₂ SO4 amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H ₂ SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1U	1 liter unpreserved plastic	BP1Z	1 liter NaOH, Zn, Ac	BP1V	1 liter Na Thio amber vial	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	BP2A	500mL NaOH, Asc Acid plastic	BP2A	500mL NaOH, Asc Acid plastic	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac	JG FU	4oz unpreserved amber wide
BP2U	500mL H ₂ SO4 plastic	AG2S	500mL H ₂ SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCl, clear vial
BP2S	500mL H ₂ SO4 plastic	AG2U	500mL unpreserved amber gla	BP3C	250mL NaOH plastic	BP3C	250mL NaOH plastic	BP3C	250mL NaOH, Zn Ac plastic	BP3C	250mL NaOH, Zn Ac plastic	VG9T	40mL Na Thio, clear vial
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	C	Air Cassette	C	Air Cassette	C	Air Cassette	C	Air Cassette	VSG	Headspace septa vial & HCl
BP3S	250mL H ₂ SO4 plastic	BG1S	1 liter H ₂ SO4 clear glass	DG9B	40mL Na Bisulfate amber vial	DG9B	40mL Na Bisulfate amber vial	DG9M	40mL MeOH clear vial	DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
AG3S	250mL H ₂ SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	BP1A	1 liter NaOH, Asc Acid plastic	BP1A	1 liter NaOH, Asc Acid plastic	BP1A	1 liter NaOH, Asc Acid plastic	BP1A	1 liter NaOH, Asc Acid plastic	ZPLC	Ziploc Bag
AG1S	1 liter H ₂ SO4 amber glass	BG1U	1 liter unpreserved glass										
BP1U	1 liter unpreserved plastic												

August 05, 2010

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5039585

Dear Ms. Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

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SAMPLE SUMMARY

Project: MI Plaza M01046

Pace Project No.: 5039585

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5039585001	MMW-1S	Water	07/21/10 10:04	07/22/10 10:20
5039585002	MMW-8S	Water	07/21/10 11:18	07/22/10 10:20
5039585003	MMW-9S	Water	07/21/10 09:35	07/22/10 10:20
5039585004	MMW-10S	Water	07/20/10 15:12	07/22/10 10:20
5039585005	MMW-11S	Water	07/21/10 10:57	07/22/10 10:20
5039585006	MMW-11D	Water	07/21/10 10:38	07/22/10 10:20
5039585007	MMW-12S	Water	07/20/10 13:25	07/22/10 10:20
5039585008	MMW-13D	Water	07/20/10 15:52	07/22/10 10:20
5039585009	MMW-14D	Water	07/20/10 14:32	07/22/10 10:20
5039585010	MMW-P-02	Water	07/21/10 12:30	07/22/10 10:20
5039585011	MMW-P-03S	Water	07/21/10 12:57	07/22/10 10:20
5039585012	MMW-P-03D	Water	07/21/10 13:15	07/22/10 10:20
5039585013	MMW-P-05	Water	07/21/10 13:41	07/22/10 10:20
5039585014	MMW-P-06	Water	07/21/10 13:59	07/22/10 10:20
5039585015	MMW-P-10S	Water	07/21/10 14:49	07/22/10 10:20
5039585016	Trip Blank	Water	07/21/10 08:00	07/22/10 10:20
5039585017	Dup 2	Water	07/21/10 08:00	07/22/10 10:20

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5039585

Lab ID	Sample ID	Method	Analysts	Analytics Reported
5039585001	MMW-1S	EPA 8260	ALA	20
		EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
5039585002	MMW-8S	EPA 8260	ALA	20
5039585003	MMW-9S	SM 2340B	FRW	1
		EPA 8260	ALA	20
		EPA 353.2	ILP	1
5039585004	MMW-10S	ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
		EPA 8260	ALA	20
5039585005	MMW-11S	EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
5039585006	MMW-11D	EPA 8260	ALA	20
5039585007	MMW-12S	EPA 8260	ALA	20
5039585008	MMW-13D	EPA 8260	ALA	20
5039585009	MMW-14D	EPA 8260	ALA	20
5039585010	MMW-P-02	EPA 8260	ALA	20
5039585011	MMW-P-03S	SM 2340B	FRW	1
		EPA 8260	ALA	20
		EPA 353.2	ILP	1
5039585012	MMW-P-03D	ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
		EPA 353.2	ILP	1
5039585013	MMW-P-05	ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
		EPA 8260	ALA	20
5039585014	MMW-P-06	EPA 353.2	ILP	1
		ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
5039585015	MMW-P-10S	EPA 353.2	ILP	1
5039585016	Trip Blank	ASTM D516-90,02	TPD	1
		EPA 8260	ALA	20
		EPA 8260	ALA	20
5039585017	Dup 2	EPA 8260	ALA	20

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-1S	Lab ID: 5039585001	Collected: 07/21/10 10:04	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/23/10 18:40	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/23/10 18:40	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/23/10 18:40	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/23/10 18:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/23/10 18:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/23/10 18:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/23/10 18:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/23/10 18:40	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/23/10 18:40	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/23/10 18:40	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/23/10 18:40	91-20-3	
Tetrachloroethene	310	ug/L	50.0	10		07/27/10 01:08	127-18-4	
Toluene	ND	ug/L	5.0	1		07/23/10 18:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/23/10 18:40	71-55-6	
Trichloroethene	21.8	ug/L	5.0	1		07/23/10 18:40	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		07/23/10 18:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/23/10 18:40	1330-20-7	
Dibromofluoromethane (S)	95 %		80-123	1		07/23/10 18:40	1868-53-7	
4-Bromofluorobenzene (S)	95 %		70-126	1		07/23/10 18:40	460-00-4	
Toluene-d8 (S)	107 %		80-116	1		07/23/10 18:40	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	5.6	mg/L	0.10	1		07/22/10 13:53		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	51.4	mg/L	25.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-8S	Lab ID: 5039585002	Collected: 07/21/10 11:18	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/23/10 19:12	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/23/10 19:12	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/23/10 19:12	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/23/10 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/23/10 19:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/23/10 19:12	75-35-4	
cis-1,2-Dichloroethene	14.9	ug/L	5.0	1		07/23/10 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/23/10 19:12	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/23/10 19:12	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/23/10 19:12	75-09-2	
Naphthalene	5.0	ug/L	5.0	1		07/23/10 19:12	91-20-3	
Tetrachloroethene	6.2	ug/L	5.0	1		07/23/10 19:12	127-18-4	
Toluene	ND	ug/L	5.0	1		07/23/10 19:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/23/10 19:12	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/23/10 19:12	79-01-6	
Vinyl chloride	230	ug/L	2.0	1		07/23/10 19:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/23/10 19:12	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		07/23/10 19:12	1868-53-7	
4-Bromofluorobenzene (S)	97 %		70-126	1		07/23/10 19:12	460-00-4	
Toluene-d8 (S)	106 %		80-116	1		07/23/10 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5039585

Sample: MMW-9S	Lab ID: 5039585003	Collected: 07/21/10 09:35	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	669	mg/L	1.0	1		08/02/10 14:07		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	50.0	10		07/23/10 19:44	71-43-2	
Carbon tetrachloride	ND	ug/L	50.0	10		07/23/10 19:44	56-23-5	
Chloroform	ND	ug/L	50.0	10		07/23/10 19:44	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		07/23/10 19:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		07/23/10 19:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		07/23/10 19:44	75-35-4	
cis-1,2-Dichloroethene	2910	ug/L	500	100		07/23/10 21:20	156-59-2	
trans-1,2-Dichloroethene	73.2	ug/L	50.0	10		07/23/10 19:44	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		07/23/10 19:44	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		07/23/10 19:44	75-09-2	
Naphthalene	ND	ug/L	50.0	10		07/23/10 19:44	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		07/23/10 19:44	127-18-4	
Toluene	ND	ug/L	50.0	10		07/23/10 19:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		07/23/10 19:44	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		07/23/10 19:44	79-01-6	
Vinyl chloride	2020	ug/L	20.0	10		07/23/10 19:44	75-01-4	
Xylene (Total)	ND	ug/L	100	10		07/23/10 19:44	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	10		07/23/10 19:44	1868-53-7	D4
4-Bromofluorobenzene (S)	96 %		70-126	10		07/23/10 19:44	460-00-4	
Toluene-d8 (S)	104 %		80-116	10		07/23/10 19:44	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/22/10 13:50		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	125	mg/L	50.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-10S	Lab ID: 5039585004	Collected: 07/20/10 15:12	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/23/10 21:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/23/10 21:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/23/10 21:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/23/10 21:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/23/10 21:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/23/10 21:52	75-35-4	
cis-1,2-Dichloroethene	267	ug/L	5.0	1		07/23/10 21:52	156-59-2	
trans-1,2-Dichloroethene	8.3	ug/L	5.0	1		07/23/10 21:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/23/10 21:52	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/23/10 21:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/23/10 21:52	91-20-3	
Tetrachloroethene	15.6	ug/L	5.0	1		07/23/10 21:52	127-18-4	
Toluene	ND	ug/L	5.0	1		07/23/10 21:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/23/10 21:52	71-55-6	
Trichloroethene	9.7	ug/L	5.0	1		07/23/10 21:52	79-01-6	
Vinyl chloride	239	ug/L	2.0	1		07/23/10 21:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/23/10 21:52	1330-20-7	
Dibromofluoromethane (S)	108 %		80-123	1		07/23/10 21:52	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		07/23/10 21:52	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		07/23/10 21:52	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-11S	Lab ID: 5039585005	Collected: 07/21/10 10:57	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/23/10 22:24	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/23/10 22:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/23/10 22:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/23/10 22:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/23/10 22:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/23/10 22:24	75-35-4	
cis-1,2-Dichloroethene	120	ug/L	5.0	1		07/23/10 22:24	156-59-2	
trans-1,2-Dichloroethene	7.4	ug/L	5.0	1		07/23/10 22:24	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/23/10 22:24	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/23/10 22:24	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/23/10 22:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/23/10 22:24	127-18-4	
Toluene	ND	ug/L	5.0	1		07/23/10 22:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/23/10 22:24	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/23/10 22:24	79-01-6	
Vinyl chloride	4.3	ug/L	2.0	1		07/23/10 22:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/23/10 22:24	1330-20-7	
Dibromofluoromethane (S)	105 %		80-123	1		07/23/10 22:24	1868-53-7	
4-Bromofluorobenzene (S)	97 %		70-126	1		07/23/10 22:24	460-00-4	
Toluene-d8 (S)	105 %		80-116	1		07/23/10 22:24	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.20	mg/L	0.10	1		07/22/10 13:54		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	216	mg/L	50.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-11D	Lab ID: 5039585006	Collected: 07/21/10 10:38	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/23/10 22:56	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/23/10 22:56	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/23/10 22:56	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/23/10 22:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/23/10 22:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/23/10 22:56	75-35-4	
cis-1,2-Dichloroethene	396	ug/L	50.0	10		07/23/10 23:28	156-59-2	
trans-1,2-Dichloroethene	21.8	ug/L	5.0	1		07/23/10 22:56	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/23/10 22:56	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/23/10 22:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/23/10 22:56	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/23/10 22:56	127-18-4	
Toluene	ND	ug/L	5.0	1		07/23/10 22:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/23/10 22:56	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/23/10 22:56	79-01-6	
Vinyl chloride	10.9	ug/L	2.0	1		07/23/10 22:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/23/10 22:56	1330-20-7	
Dibromofluoromethane (S)	108	%	80-123	1		07/23/10 22:56	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		07/23/10 22:56	460-00-4	
Toluene-d8 (S)	105	%	80-116	1		07/23/10 22:56	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-12S	Lab ID: 5039585007	Collected: 07/20/10 13:25	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 00:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 00:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 00:00	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 00:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 00:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 00:00	75-35-4	
cis-1,2-Dichloroethene	25.4	ug/L	5.0	1		07/24/10 00:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 00:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 00:00	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 00:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 00:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/24/10 00:00	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 00:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 00:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 00:00	79-01-6	
Vinyl chloride	7.3	ug/L	2.0	1		07/24/10 00:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 00:00	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		07/24/10 00:00	1868-53-7	
4-Bromofluorobenzene (S)	95 %		70-126	1		07/24/10 00:00	460-00-4	
Toluene-d8 (S)	107 %		80-116	1		07/24/10 00:00	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-13D	Lab ID: 5039585008	Collected: 07/20/10 15:52	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 00:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 00:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 00:32	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 00:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 00:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 00:32	75-35-4	
cis-1,2-Dichloroethene	432	ug/L	50.0	10		07/24/10 01:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 00:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 00:32	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 00:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 00:32	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/24/10 00:32	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 00:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 00:32	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 00:32	79-01-6	
Vinyl chloride	16.6	ug/L	2.0	1		07/24/10 00:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 00:32	1330-20-7	
Dibromofluoromethane (S)	109 %		80-123	1		07/24/10 00:32	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		07/24/10 00:32	460-00-4	
Toluene-d8 (S)	106 %		80-116	1		07/24/10 00:32	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-14D	Lab ID: 5039585009	Collected: 07/20/10 14:32	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 00:36	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 00:36	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 00:36	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 00:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 00:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 00:36	75-35-4	
cis-1,2-Dichloroethene	805	ug/L	50.0	10		07/24/10 01:36	156-59-2	
trans-1,2-Dichloroethene	14.6	ug/L	5.0	1		07/27/10 00:36	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 00:36	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 00:36	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 00:36	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/10 00:36	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 00:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 00:36	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 00:36	79-01-6	
Vinyl chloride	60.8	ug/L	2.0	1		07/27/10 00:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 00:36	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		07/27/10 00:36	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		07/27/10 00:36	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		07/27/10 00:36	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-P-02	Lab ID: 5039585010	Collected: 07/21/10 12:30	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 02:08	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 02:08	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 02:08	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 02:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 02:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 02:08	75-35-4	
cis-1,2-Dichloroethene	72.4	ug/L	5.0	1		07/24/10 02:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 02:08	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 02:08	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 02:08	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 02:08	91-20-3	
Tetrachloroethene	24.0	ug/L	5.0	1		07/24/10 02:08	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 02:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 02:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 02:08	79-01-6	
Vinyl chloride	161	ug/L	2.0	1		07/24/10 02:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 02:08	1330-20-7	
Dibromofluoromethane (S)	106 %		80-123	1		07/24/10 02:08	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		07/24/10 02:08	460-00-4	
Toluene-d8 (S)	106 %		80-116	1		07/24/10 02:08	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-P-03S	Lab ID: 5039585011	Collected: 07/21/10 12:57	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	526	mg/L	1.0	1		08/02/10 14:13		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 08:47	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 08:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 08:47	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 08:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 08:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 08:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 08:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 08:47	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 08:47	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 08:47	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 08:47	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/24/10 08:47	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 08:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 08:47	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 08:47	79-01-6	
Vinyl chloride	141	ug/L	2.0	1		07/24/10 08:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 08:47	1330-20-7	
Dibromofluoromethane (S)	97 %		80-123	1		07/24/10 08:47	1868-53-7	
4-Bromofluorobenzene (S)	94 %		70-126	1		07/24/10 08:47	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		07/24/10 08:47	2037-26-5	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/22/10 13:56		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-P-03D	Lab ID: 5039585012	Collected: 07/21/10 13:15	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 02:40	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 02:40	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 02:40	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 02:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 02:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 02:40	75-35-4	
cis-1,2-Dichloroethene	271	ug/L	5.0	1		07/24/10 02:40	156-59-2	
trans-1,2-Dichloroethene	8.1	ug/L	5.0	1		07/24/10 02:40	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 02:40	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 02:40	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 02:40	91-20-3	
Tetrachloroethene	6.6	ug/L	5.0	1		07/24/10 02:40	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 02:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 02:40	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 02:40	79-01-6	
Vinyl chloride	305	ug/L	20.0	10		07/27/10 01:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 02:40	1330-20-7	
Dibromofluoromethane (S)	106 %		80-123	1		07/24/10 02:40	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		07/24/10 02:40	460-00-4	
Toluene-d8 (S)	106 %		80-116	1		07/24/10 02:40	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/22/10 13:57		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	6.8	mg/L	5.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-P-05	Lab ID: 5039585013	Collected: 07/21/10 13:41	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 09:51	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 09:51	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 09:51	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 09:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 09:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 09:51	75-35-4	
cis-1,2-Dichloroethene	10.4	ug/L	5.0	1		07/24/10 09:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 09:51	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 09:51	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 09:51	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 09:51	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/24/10 09:51	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 09:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 09:51	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 09:51	79-01-6	
Vinyl chloride	5.3	ug/L	2.0	1		07/24/10 09:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 09:51	1330-20-7	
Dibromofluoromethane (S)	97 %		80-123	1		07/24/10 09:51	1868-53-7	
4-Bromofluorobenzene (S)	95 %		70-126	1		07/24/10 09:51	460-00-4	
Toluene-d8 (S)	106 %		80-116	1		07/24/10 09:51	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-P-06	Lab ID: 5039585014	Collected: 07/21/10 13:59	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	50.0	10		07/24/10 10:55	71-43-2	
Carbon tetrachloride	ND	ug/L	50.0	10		07/24/10 10:55	56-23-5	
Chloroform	ND	ug/L	50.0	10		07/24/10 10:55	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		07/24/10 10:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		07/24/10 10:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		07/24/10 10:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		07/24/10 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		07/24/10 10:55	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		07/24/10 10:55	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		07/24/10 10:55	75-09-2	
Naphthalene	ND	ug/L	50.0	10		07/24/10 10:55	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		07/24/10 10:55	127-18-4	
Toluene	ND	ug/L	50.0	10		07/24/10 10:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		07/24/10 10:55	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		07/24/10 10:55	79-01-6	
Vinyl chloride	5870	ug/L	200	100		07/24/10 11:27	75-01-4	
Xylene (Total)	ND	ug/L	100	10		07/24/10 10:55	1330-20-7	
Dibromofluoromethane (S)	99 %		80-123	10		07/24/10 10:55	1868-53-7	1d
4-Bromofluorobenzene (S)	94 %		70-126	10		07/24/10 10:55	460-00-4	
Toluene-d8 (S)	105 %		80-116	10		07/24/10 10:55	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/22/10 13:58		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	38.7	mg/L		5.0	1		08/02/10 12:00	14808-79-8

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: MMW-P-10S	Lab ID: 5039585015	Collected: 07/21/10 14:49	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 11:59	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 11:59	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 11:59	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 11:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 11:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 11:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 11:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 11:59	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 11:59	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 11:59	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 11:59	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/24/10 11:59	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 11:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 11:59	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 11:59	79-01-6	
Vinyl chloride	16.5	ug/L	2.0	1		07/24/10 11:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 11:59	1330-20-7	
Dibromofluoromethane (S)	97 %		80-123	1		07/24/10 11:59	1868-53-7	
4-Bromofluorobenzene (S)	93 %		70-126	1		07/24/10 11:59	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		07/24/10 11:59	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		07/22/10 14:03		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		08/02/10 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: Trip Blank	Lab ID: 5039585016	Collected: 07/21/10 08:00	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/24/10 12:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/10 12:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/24/10 12:31	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/10 12:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/10 12:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/24/10 12:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 12:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/24/10 12:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/24/10 12:31	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/24/10 12:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/24/10 12:31	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		07/24/10 12:31	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/10 12:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/10 12:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/24/10 12:31	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		07/24/10 12:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/24/10 12:31	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		07/24/10 12:31	1868-53-7	
4-Bromofluorobenzene (S)	93 %		70-126	1		07/24/10 12:31	460-00-4	
Toluene-d8 (S)	105 %		80-116	1		07/24/10 12:31	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046

Pace Project No.: 5039585

Sample: Dup 2	Lab ID: 5039585017	Collected: 07/21/10 08:00	Received: 07/22/10 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		07/27/10 02:12	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/10 02:12	56-23-5	
Chloroform	ND	ug/L	5.0	1		07/27/10 02:12	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/10 02:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/10 02:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/10 02:12	75-35-4	
cis-1,2-Dichloroethene	87.2	ug/L	5.0	1		07/27/10 02:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/10 02:12	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		07/27/10 02:12	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		07/27/10 02:12	75-09-2	
Naphthalene	ND	ug/L	5.0	1		07/27/10 02:12	91-20-3	
Tetrachloroethene	23.0	ug/L	5.0	1		07/27/10 02:12	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/10 02:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/10 02:12	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		07/27/10 02:12	79-01-6	
Vinyl chloride	127	ug/L	2.0	1		07/27/10 02:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/27/10 02:12	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		07/27/10 02:12	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		07/27/10 02:12	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		07/27/10 02:12	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

QC Batch:	MSV/25585	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples: 5039585001, 5039585002, 5039585003, 5039585004, 5039585005, 5039585006, 5039585007, 5039585008, 5039585010, 5039585012			

METHOD BLANK: 459979 Matrix: Water

Associated Lab Samples: 5039585001, 5039585002, 5039585003, 5039585004, 5039585005, 5039585006, 5039585007, 5039585008, 5039585010, 5039585012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/23/10 16:54	
1,1-Dichloroethane	ug/L	ND	5.0	07/23/10 16:54	
1,1-Dichloroethene	ug/L	ND	5.0	07/23/10 16:54	
1,2-Dichloroethane	ug/L	ND	5.0	07/23/10 16:54	
Benzene	ug/L	ND	5.0	07/23/10 16:54	
Carbon tetrachloride	ug/L	ND	5.0	07/23/10 16:54	
Chloroform	ug/L	ND	5.0	07/23/10 16:54	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/23/10 16:54	
Ethylbenzene	ug/L	ND	5.0	07/23/10 16:54	
Methylene chloride	ug/L	ND	5.0	07/23/10 16:54	
Naphthalene	ug/L	ND	5.0	07/23/10 16:54	
Tetrachloroethene	ug/L	ND	5.0	07/23/10 16:54	
Toluene	ug/L	ND	5.0	07/23/10 16:54	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/23/10 16:54	
Trichloroethene	ug/L	ND	5.0	07/23/10 16:54	
Vinyl chloride	ug/L	ND	2.0	07/23/10 16:54	
Xylene (Total)	ug/L	ND	10.0	07/23/10 16:54	
4-Bromofluorobenzene (S)	%	95	70-126	07/23/10 16:54	
Dibromofluoromethane (S)	%	97	80-123	07/23/10 16:54	
Toluene-d8 (S)	%	105	80-116	07/23/10 16:54	

LABORATORY CONTROL SAMPLE: 459980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.2	90	69-136	
1,1-Dichloroethane	ug/L	50	42.3	85	67-133	
1,1-Dichloroethene	ug/L	50	53.1	106	63-128	
1,2-Dichloroethane	ug/L	50	49.4	99	69-139	
Benzene	ug/L	50	44.1	88	78-127	
Carbon tetrachloride	ug/L	50	39.2	78	62-143	
Chloroform	ug/L	50	42.5	85	74-131	
cis-1,2-Dichloroethene	ug/L	50	45.4	91	74-128	
Ethylbenzene	ug/L	50	49.4	99	81-126	
Methylene chloride	ug/L	50	69.0	138	32-164	
Naphthalene	ug/L	50	44.0	88	61-135	
Tetrachloroethene	ug/L	50	51.3	103	60-119	
Toluene	ug/L	50	51.1	102	75-129	
trans-1,2-Dichloroethene	ug/L	50	49.2	98	71-126	
Trichloroethene	ug/L	50	44.8	90	74-130	
Vinyl chloride	ug/L	50	54.0	108	55-141	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

LABORATORY CONTROL SAMPLE: 459980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	157	104	76-132	
4-Bromofluorobenzene (S)	%			96	70-126	
Dibromofluoromethane (S)	%			97	80-123	
Toluene-d8 (S)	%			105	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459981 459982

Parameter	Units	5039585003		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		Spiked	Result	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	ND	500	500	413	465	83	93	64-143	12	20
1,1-Dichloroethane	ug/L	ND	500	500	381	421	76	84	68-139	10	20
1,1-Dichloroethene	ug/L	ND	500	500	507	552	101	110	55-140	9	20
1,2-Dichloroethane	ug/L	ND	500	500	443	483	89	97	63-148	9	20
Benzene	ug/L	ND	500	500	395	437	79	87	63-141	10	20
Carbon tetrachloride	ug/L	ND	500	500	355	414	71	83	54-145	15	20
Chloroform	ug/L	ND	500	500	389	422	78	84	67-134	8	20
cis-1,2-Dichloroethene	ug/L	2910	500	500	3360	3180	90	52	65-132	6	20 M0
Ethylbenzene	ug/L	ND	500	500	433	487	87	97	44-151	12	20
Methylene chloride	ug/L	ND	500	500	605	659	121	132	46-154	9	20
Naphthalene	ug/L	ND	500	500	330	390	66	78	44-138	17	20
Tetrachloroethene	ug/L	ND	500	500	458	516	92	103	25-146	12	20
Toluene	ug/L	ND	500	500	451	497	90	99	59-142	10	20
trans-1,2-Dichloroethene	ug/L	73.2	500	500	528	561	91	98	60-137	6	20
Trichloroethene	ug/L	ND	500	500	403	454	81	91	61-137	12	20
Vinyl chloride	ug/L	2020	500	500	2290	2170	55	30	51-144	6	20 M0
Xylene (Total)	ug/L	ND	1500	1500	1380	1570	92	104	44-152	13	20
4-Bromofluorobenzene (S)	%						98	98	70-126		20
Dibromofluoromethane (S)	%						100	100	80-123		20
Toluene-d8 (S)	%						106	106	80-116		20

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

QC Batch: MSV/25588 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 5039585011, 5039585013, 5039585014, 5039585015, 5039585016

METHOD BLANK: 459988 Matrix: Water

Associated Lab Samples: 5039585011, 5039585013, 5039585014, 5039585015, 5039585016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/24/10 05:03	
1,1-Dichloroethane	ug/L	ND	5.0	07/24/10 05:03	
1,1-Dichloroethene	ug/L	ND	5.0	07/24/10 05:03	
1,2-Dichloroethane	ug/L	ND	5.0	07/24/10 05:03	
Benzene	ug/L	ND	5.0	07/24/10 05:03	
Carbon tetrachloride	ug/L	ND	5.0	07/24/10 05:03	
Chloroform	ug/L	ND	5.0	07/24/10 05:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/24/10 05:03	
Ethylbenzene	ug/L	ND	5.0	07/24/10 05:03	
Methylene chloride	ug/L	ND	5.0	07/24/10 05:03	
Naphthalene	ug/L	ND	5.0	07/24/10 05:03	
Tetrachloroethene	ug/L	ND	5.0	07/24/10 05:03	
Toluene	ug/L	ND	5.0	07/24/10 05:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/24/10 05:03	
Trichloroethene	ug/L	ND	5.0	07/24/10 05:03	
Vinyl chloride	ug/L	ND	2.0	07/24/10 05:03	
Xylene (Total)	ug/L	ND	10.0	07/24/10 05:03	
4-Bromofluorobenzene (S)	%	95	70-126	07/24/10 05:03	
Dibromofluoromethane (S)	%	96	80-123	07/24/10 05:03	
Toluene-d8 (S)	%	104	80-116	07/24/10 05:03	

LABORATORY CONTROL SAMPLE: 459989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.5	89	69-136	
1,1-Dichloroethane	ug/L	50	42.8	86	67-133	
1,1-Dichloroethene	ug/L	50	61.5	123	63-128	
1,2-Dichloroethane	ug/L	50	49.9	100	69-139	
Benzene	ug/L	50	45.3	91	78-127	
Carbon tetrachloride	ug/L	50	41.4	83	62-143	
Chloroform	ug/L	50	45.1	90	74-131	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	74-128	
Ethylbenzene	ug/L	50	51.8	104	81-126	
Methylene chloride	ug/L	50	42.6	85	32-164	
Naphthalene	ug/L	50	45.7	91	61-135	
Tetrachloroethene	ug/L	50	53.7	107	60-119	
Toluene	ug/L	50	52.4	105	75-129	
trans-1,2-Dichloroethene	ug/L	50	52.2	104	71-126	
Trichloroethene	ug/L	50	45.3	91	74-130	
Vinyl chloride	ug/L	50	57.5	115	55-141	
Xylene (Total)	ug/L	150	164	109	76-132	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

LABORATORY CONTROL SAMPLE: 459989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			98	70-126	
Dibromofluoromethane (S)	%			97	80-123	
Toluene-d8 (S)	%			105	80-116	

MATRIX SPIKE SAMPLE: 459990

Parameter	Units	5039585013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		ND	50	47.4	95	64-143
1,1-Dichloroethane	ug/L		ND	50	45.1	90	68-139
1,1-Dichloroethene	ug/L		ND	50	71.3	143	55-140 M0
1,2-Dichloroethane	ug/L		ND	50	50.5	101	63-148
Benzene	ug/L		ND	50	47.8	96	63-141
Carbon tetrachloride	ug/L		ND	50	43.5	87	54-145
Chloroform	ug/L		ND	50	47.3	95	67-134
cis-1,2-Dichloroethene	ug/L	10.4	50	62.7	105	65-132	
Ethylbenzene	ug/L		ND	50	52.6	105	44-151
Methylene chloride	ug/L		ND	50	43.4	87	46-154
Naphthalene	ug/L		ND	50	38.5	77	44-138
Tetrachloroethene	ug/L		ND	50	57.6	115	25-146
Toluene	ug/L		ND	50	53.3	107	59-142
trans-1,2-Dichloroethene	ug/L		ND	50	58.5	115	60-137
Trichloroethene	ug/L		ND	50	48.6	97	61-137
Vinyl chloride	ug/L	5.3	50	72.5	134	51-144	
Xylene (Total)	ug/L		ND	150	168	112	44-152
4-Bromofluorobenzene (S)	%					99	70-126
Dibromofluoromethane (S)	%					101	80-123
Toluene-d8 (S)	%					104	80-116

QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

QC Batch:	MSV/25610	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5039585009, 5039585017		

METHOD BLANK: 460371 Matrix: Water

Associated Lab Samples: 5039585009, 5039585017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/26/10 23:32	
1,1-Dichloroethane	ug/L	ND	5.0	07/26/10 23:32	
1,1-Dichloroethene	ug/L	ND	5.0	07/26/10 23:32	
1,2-Dichloroethane	ug/L	ND	5.0	07/26/10 23:32	
Benzene	ug/L	ND	5.0	07/26/10 23:32	
Carbon tetrachloride	ug/L	ND	5.0	07/26/10 23:32	
Chloroform	ug/L	ND	5.0	07/26/10 23:32	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/26/10 23:32	
Ethylbenzene	ug/L	ND	5.0	07/26/10 23:32	
Methylene chloride	ug/L	ND	5.0	07/26/10 23:32	
Naphthalene	ug/L	15.4	5.0	07/26/10 23:32	B-
Tetrachloroethene	ug/L	ND	5.0	07/26/10 23:32	
Toluene	ug/L	ND	5.0	07/26/10 23:32	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/26/10 23:32	
Trichloroethene	ug/L	ND	5.0	07/26/10 23:32	
Vinyl chloride	ug/L	ND	2.0	07/26/10 23:32	
Xylene (Total)	ug/L	ND	10.0	07/26/10 23:32	
4-Bromofluorobenzene (S)	%	97	70-126	07/26/10 23:32	
Dibromofluoromethane (S)	%	99	80-123	07/26/10 23:32	
Toluene-d8 (S)	%	100	80-116	07/26/10 23:32	

LABORATORY CONTROL SAMPLE: 460372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	69-136	
1,1-Dichloroethane	ug/L	50	51.0	102	67-133	
1,1-Dichloroethene	ug/L	50	57.9	116	63-128	
1,2-Dichloroethane	ug/L	50	55.9	112	69-139	
Benzene	ug/L	50	55.5	111	78-127	
Carbon tetrachloride	ug/L	50	50.9	102	62-143	
Chloroform	ug/L	50	54.8	110	74-131	
cis-1,2-Dichloroethene	ug/L	50	60.0	120	74-128	
Ethylbenzene	ug/L	50	58.1	116	81-126	
Methylene chloride	ug/L	50	50.6	101	32-164	
Naphthalene	ug/L	50	57.2	114	61-135	
Tetrachloroethene	ug/L	50	43.8	88	60-119	
Toluene	ug/L	50	58.1	116	75-129	
trans-1,2-Dichloroethene	ug/L	50	60.9	122	71-126	
Trichloroethene	ug/L	50	57.5	115	74-130	
Vinyl chloride	ug/L	50	44.4	89	55-141	
Xylene (Total)	ug/L	150	162	108	76-132	

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

LABORATORY CONTROL SAMPLE: 460372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			103	70-126	
Dibromofluoromethane (S)	%			100	80-123	
Toluene-d8 (S)	%			101	80-116	

Date: 08/05/2010 11:41 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

QC Batch: WETA/5290 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 5039585001, 5039585003, 5039585005, 5039585011, 5039585012, 5039585014, 5039585015

METHOD BLANK: 458781 Matrix: Water

Associated Lab Samples: 5039585001, 5039585003, 5039585005, 5039585011, 5039585012, 5039585014, 5039585015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	07/22/10 13:48	

LABORATORY CONTROL SAMPLE: 458782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.2	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 458783 458784

Parameter	Units	5039585003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.9	1.9	93	92	90-110	.3	20	

QUALITY CONTROL DATA

Project: MI Plaza M01046

Pace Project No.: 5039585

QC Batch: WETA/5319 Analysis Method: ASTM D516-90,02

QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water

Associated Lab Samples: 5039585001, 5039585003, 5039585005, 5039585011, 5039585012, 5039585014, 5039585015

METHOD BLANK: 462362 Matrix: Water

Associated Lab Samples: 5039585001, 5039585003, 5039585005, 5039585011, 5039585012, 5039585014, 5039585015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	08/02/10 12:00	

LABORATORY CONTROL SAMPLE: 462363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462364 462365

Parameter	Units	5039585003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Sulfate	mg/L	125	200	200	370	330	122	103	75-125	11	20	

MATRIX SPIKE SAMPLE: 462366

Parameter	Units	5039613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	65.3	100	164	98	75-125	

QUALIFIERS

Project: MI Plaza M01046

Pace Project No.: 5039585

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1d Due to the high concentration of vinyl chloride a lower dilution was not analyzed. aa 7/26/10

B- Analyte detected in method blank but was not detected in the associated samples.

D4 Sample was diluted due to the presence of high levels of target analytes.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5039585

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5039585003	MMW-9S	SM 2340B	ICP/5428		
5039585011	MMW-P-03S	SM 2340B	ICP/5428		
5039585001	MMW-1S	EPA 8260	MSV/25585		
5039585002	MMW-8S	EPA 8260	MSV/25585		
5039585003	MMW-9S	EPA 8260	MSV/25585		
5039585004	MMW-10S	EPA 8260	MSV/25585		
5039585005	MMW-11S	EPA 8260	MSV/25585		
5039585006	MMW-11D	EPA 8260	MSV/25585		
5039585007	MMW-12S	EPA 8260	MSV/25585		
5039585008	MMW-13D	EPA 8260	MSV/25585		
5039585009	MMW-14D	EPA 8260	MSV/25610		
5039585010	MMW-P-02	EPA 8260	MSV/25585		
5039585011	MMW-P-03S	EPA 8260	MSV/25588		
5039585012	MMW-P-03D	EPA 8260	MSV/25585		
5039585013	MMW-P-05	EPA 8260	MSV/25588		
5039585014	MMW-P-06	EPA 8260	MSV/25588		
5039585015	MMW-P-10S	EPA 8260	MSV/25588		
5039585016	Trip Blank	EPA 8260	MSV/25588		
5039585017	Dup 2	EPA 8260	MSV/25610		
5039585001	MMW-1S	EPA 353.2	WETA/5290		
5039585003	MMW-9S	EPA 353.2	WETA/5290		
5039585005	MMW-11S	EPA 353.2	WETA/5290		
5039585011	MMW-P-03S	EPA 353.2	WETA/5290		
5039585012	MMW-P-03D	EPA 353.2	WETA/5290		
5039585014	MMW-P-06	EPA 353.2	WETA/5290		
5039585015	MMW-P-10S	EPA 353.2	WETA/5290		
5039585001	MMW-1S	ASTM D516-90,02	WETA/5319		
5039585003	MMW-9S	ASTM D516-90,02	WETA/5319		
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Company: Andell & Associates	Report To: Sarah Webb	Copy To: None	Attention: Marketplace	Company Name: Mandell	Project Reference:																																																																																				
Address: 110 S. Downey Ave	Purchase Order No.:	Address:	Project Manager:	Project Manager:	Project Reference:																																																																																				
Email To: Jadell.JN.4621a@pacslabs.com	Project Name: Mt Plaza Molouy	Pace Profile #:	Site Location:	State:	Residual Chlorine (Y/N)																																																																																				
Phone: 317-630-9349	Project Number: 317-630-9045																																																																																								
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<p>ORIGINAL INSTRUMENT</p> <p>PRINT NAME OF SAMPLER: Amy Damalec</p> <p>SIGNATURE OF SAMPLER: Amy Damalec</p> <p>PRINT NAME AND SIGNATURE: Tina Pace</p>																																																																																									
<p>Temp in °C Received on Date (Y/N)</p> <p>Custody Sealed/Codiered (Y/N)</p> <p>Samples intact (Y/N)</p>																																																																																									
<p>F-ALL-Q-020rev.07, 15-May-2007</p> <p>*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for accounts not paid within 30 days.</p>																																																																																									



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Company: Mundell & Associates	Report To: Sarah Webb	Attention: Percy McCabe	Address: 110 S. Downey Ave	Company Name: Mundell	REGULATORY AGENCY																																																																																			
Address: Jedols, TN 46219	Purchase Order No.:		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER																																																																																			
Email To: 317-630-9060	Project Name: NI Plaza	Phone Quote	Pace Project Manager:	Pace Profile #:	Site Location STATE: _____																																																																																			
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Oil	OL	OL	OL	OL	OL	OL																																																																																		
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Air	AR	AR	AR	AR	AR	AR																																																																																		
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Thank you																																																																																								
ORIGINAL 1570 0021 Pace		SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>James</u>		SAMPLE CONDITIONS DATE: 7/12/10 TIME: SAMPLE CONDITIONS																																																																																				
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>James</u>		SIGNATURE of SAMPLER: <u>James</u>		DATE Signed (MM/DD/YY): 7/12/10																																																																																				
Temp in °C Received on _____ Custody Seal/Coder (Y/N) Samples intact (Y/N)		Temp in °C Received on _____ Custody Seal/Coder (Y/N) Samples intact (Y/N)		Temp in °C Received on _____ Custody Seal/Coder (Y/N) Samples intact (Y/N)																																																																																				

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc Project # 5039585-

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 18°C

Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 7/22/10 27.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>Water</u>
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: S. Webb Date/Time: 7/22/10 via email

Comments/ Resolution:

use 09:35 for MMW-95

Project Manager Review:

J. Daugh

Date:

7/22/10

Sample Container Count

CLIENT: Munchell & Assoc.

COC PAGE _____ of
COC ID# 1337178.

5039585

Project #

Pace Analytical
www.paceanalytical.com

Sample Line

Item	DG9H	AG1U	WG FU R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3								1			
2	3											
3	9											
4	3											
5	3											
6	3											
7	3											
8	3											
9	3											
10	3											
11	3								1	1		
12	3								1			

Container Codes

DG9H	40mL HCl amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H ₂ SO ₄ plastic	DG9S	40mL H ₂ SO ₄ amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H ₂ SO ₄ amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wiper/Swab
BP2U	500mL H ₂ SO ₄ plastic	AG2S	500mL H ₂ SO ₄ amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H ₂ SO ₄ plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H ₂ SO ₄ plastic	BG1S	1 liter H ₂ SO ₄ clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VGGU	40mL unpreserved clear vial
AG3S	250mL H ₂ SO ₄ glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassette	VSG	Headspace septa vial & HCl
AG1S	1 liter H ₂ SO ₄ amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

CLIENT: Mundell & Assoc
 COC PAGE 2 of 2
 COC ID# 1327179

Sample Container Count

Project # 5039585

Sample Line

Item	DG9H	AG1U	WG FU R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3												
2	3												
3	3												
4	3												
5	3												
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCl. amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic		DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl. amber glass	BP1S	1 liter H ₂ SO ₄ plastic		DG9S	40mL H ₂ SO ₄ amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H ₂ SO ₄ amber glass	BP1U	1 liter unpreserved plastic		DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac		DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic		JGFU	4oz unpreserved amber wide
BP2U	500mL unpreserved plastic	AG2S	500mL H ₂ SO ₄ amber glass	BP2O	500mL NaOH plastic			
BP2S	500mL H ₂ SO ₄ plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac			
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic		VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3C	250mL NaOH plastic		VG9T	40mL Na Thio. clear vial
BP3S	250mL H ₂ SO ₄ plastic	BG1S	1 liter H ₂ SO ₄ clear glass	BP3Z	250mL NaOH, Zn Ac plastic		VG9U	40mL unpreserved clear vial
AG3S	250mL H ₂ SO ₄ glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes		VSG	Headspace septa vial & HCl
AG1S	1 liter H ₂ SO ₄ amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial		WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial		ZPLC	Ziploc Bag



Client Name: Mundell & Associates
Contact: Sarah Webb
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 1 of 4
Lab Proj #: P1007111
Report Date: 07/22/10
Client Proj Name: Michigan Plaza
Client Proj #: M01046

Laboratory Results

Total pages in data package: 5

<u>Lab Sample #</u>	<u>Client Sample ID</u>
P1007111-01	MW-170D
P1007111-02	MW-165D
P1007111-03	MMW-P-01

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (HT) Date: 7-22-10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

Case Narrative:

Client Name: Mundell & Associates
Contact: Sarah Webb
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 2 of 4
Lab Proj #: P1007111
Report Date: 07/22/10
Client Proj Name: Michigan Plaza
Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
MW-170D	Water	P1007111-01		07 Jul. 10 13:20		09 Jul. 10 12:45	
<u>Analyte(s)</u>	<u>Flag Result</u>	PQL	MDL	Units	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
SemiVolatile							
N Acetic Acid	J	0.036	0.070	0.006	mg/L	AM23G	7/20/10
N Butyric Acid	U	< 0.050	0.050	0.004	mg/L	AM23G	7/20/10
N Hexanoic Acid	U	< 0.050	0.050	0.006	mg/L	AM23G	7/20/10
N i-Hexanoic Acid	U	< 0.050	0.050	0.006	mg/L	AM23G	7/20/10
N i-Pentanoic Acid	U	< 0.150	0.150	0.044	mg/L	AM23G	7/20/10
N Lactic Acid	J	0.045	0.100	0.010	mg/L	AM23G	7/20/10
N Pentanoic Acid	U	< 0.070	0.070	0.012	mg/L	AM23G	7/20/10
N Propionic Acid	U	< 0.050	0.050	0.007	mg/L	AM23G	7/20/10
N Pyruvic Acid	U	< 0.150	0.150	0.033	mg/L	AM23G	7/20/10



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
Contact: Sarah Webb
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 3 of 4
Lab Proj #: P1007111
Report Date: 07/22/10
Client Proj Name: Michigan Plaza
Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
MW-165D	Water	P1007111-02		07 Jul. 10 15:15		09 Jul. 10 12:45	
<u>Analyte(s)</u>	<u>Flag Result</u>	PQL	MDL	Units	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
SemiVolatiles							
N Acetic Acid	J	0.028	0.070	0.006	mg/L	AM23G	7/20/10
N Butyric Acid	U	< 0.050	0.050	0.004	mg/L	AM23G	7/20/10
N Hexanoic Acid	U	< 0.050	0.050	0.006	mg/L	AM23G	7/20/10
N i-Hexanoic Acid	U	< 0.050	0.050	0.006	mg/L	AM23G	7/20/10
N i-Pentanoic Acid	U	< 0.150	0.150	0.044	mg/L	AM23G	7/20/10
N Lactic Acid	J	0.015	0.100	0.010	mg/L	AM23G	7/20/10
N Pentanoic Acid	U	< 0.070	0.070	0.012	mg/L	AM23G	7/20/10
N Propionic Acid	U	< 0.050	0.050	0.007	mg/L	AM23G	7/20/10
N Pyruvic Acid	U	< 0.150	0.150	0.033	mg/L	AM23G	7/20/10



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 4 of 4
 Lab Proj #: P1007111
 Report Date: 07/22/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
MMW-P-01	Water	P1007111-03		07 Jul. 10 16:55		09 Jul. 10 12:45	
<u>Analyte(s)</u>	<u>Flag Result</u>	PQL	MDL	Units	Method #	<u>Analysis Date</u>	<u>By</u>
SemiVolatiles							
N Acetic Acid		2.500	0.070	0.006	mg/L	AM23G	7/20/10 kb
N Butyric Acid	U	< 0.050	0.050	0.004	mg/L	AM23G	7/20/10 kb
N Hexanoic Acid	U	< 0.050	0.050	0.006	mg/L	AM23G	7/20/10 kb
N i-Hexanoic Acid	U	< 0.050	0.050	0.006	mg/L	AM23G	7/20/10 kb
N i-Pentanoic Acid	U	< 0.150	0.150	0.044	mg/L	AM23G	7/20/10 kb
N Lactic Acid	U	< 0.100	0.100	0.010	mg/L	AM23G	7/20/10 kb
N Pentanoic Acid	U	< 0.070	0.070	0.012	mg/L	AM23G	7/20/10 kb
N Propionic Acid	U	< 0.050	0.050	0.007	mg/L	AM23G	7/20/10 kb
N Pyruvic Acid	U	< 0.150	0.150	0.033	mg/L	AM23G	7/20/10 kb



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Microseeps
Lab. Proj. #

CHAIN - OF - CUSTODY RECORD

Microseeps
COC cont. #



Phone: (412) 826-5245

Microseeps, Inc.

220 William Pitt Way - Pittsburgh, PA 15238

Fax No: (412) 826-3433

920

Company : Mundell & Associates

Co. Address : 110 S. Downey Ave. Tadlock, TN 46744

Phone # : 317-630-9060 Fax #: 317-630-9065

Proj. Manager : Sarah Webb

Proj. Name/Number : MI Plaza Motel

Sampler's signature :

Parameters Requested

Results to :

Sarah Webb

Invoice to :

Mercle Tibbe
D. Mundell

Sample Description

Remarks:

Sample ID Sample Type Date Time
Water/Soil

MW-170 D water X 7/7/0 1:20 P 2 X
MW-165 D water X 7/7/0 3:15 P 2 ✓
MW-165 L water X 7/7/0 4:55 P 2 ✓

Relinquished by : Company : Date : Time : Received by : Company : Date : Time :

Relinquished by : Company : Date : Time : Received by : Company : Date : Time :

Relinquished by : Company : Date : Time : Received by : Company : Date : Time :

PINK COPY : Laboratory File

WHITE COPY : Accompany Samples

YELLOW COPY : Laboratory File

July 22, 2010

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza
Pace Project No.: 5039176

Dear Ms. Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 24

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SAMPLE SUMMARY

Project: MI Plaza
 Pace Project No.: 5039176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5039176001	MW-170D	Water	07/07/10 13:20	07/08/10 10:25
5039176002	MW-165D	Water	07/07/10 15:15	07/08/10 10:25
5039176003	MMW-P-01	Water	07/07/10 16:55	07/08/10 10:25
5039176004	Dup	Water	07/07/10 08:00	07/08/10 10:25
5039176005	Trip Blank	Water	07/07/10 08:00	07/08/10 10:25

REPORT OF LABORATORY ANALYSIS

Page 2 of 24

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SAMPLE ANALYTE COUNT

Project: MI Plaza
Pace Project No.: 5039176

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5039176001	MW-170D	EPA 8260	ALA	73
5039176002	MW-165D	EPA 8260	RSR	73
5039176003	MMW-P-01	EPA 8260	ALA	73
5039176004	Dup	EPA 8260	ALA	73
5039176005	Trip Blank	EPA 8260	ALA	73

REPORT OF LABORATORY ANALYSIS

Page 3 of 24

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: MW-170D	Lab ID: 5039176001	Collected: 07/07/10 13:20	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		07/17/10 05:56	67-64-1	
Acrolein	ND ug/L		50.0	1		07/17/10 05:56	107-02-8	
Acrylonitrile	ND ug/L		100	1		07/17/10 05:56	107-13-1	
Benzene	ND ug/L		5.0	1		07/17/10 05:56	71-43-2	
Bromobenzene	ND ug/L		5.0	1		07/17/10 05:56	108-86-1	
Bromoform	ND ug/L		5.0	1		07/17/10 05:56	74-97-5	
Bromochloromethane	ND ug/L		5.0	1		07/17/10 05:56	75-27-4	
Bromodichloromethane	ND ug/L		5.0	1		07/17/10 05:56	75-25-2	
Bromoform	ND ug/L		5.0	1		07/17/10 05:56	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/17/10 05:56	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		07/17/10 05:56	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		07/17/10 05:56	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		07/17/10 05:56	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		07/17/10 05:56	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		07/17/10 05:56	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		07/17/10 05:56	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		07/17/10 05:56	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/17/10 05:56	75-00-3	
Chloroform	ND ug/L		5.0	1		07/17/10 05:56	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/17/10 05:56	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		07/17/10 05:56	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		07/17/10 05:56	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		07/17/10 05:56	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		07/17/10 05:56	106-93-4	
Dibromomethane	ND ug/L		5.0	1		07/17/10 05:56	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/17/10 05:56	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/17/10 05:56	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/17/10 05:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		07/17/10 05:56	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		07/17/10 05:56	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		07/17/10 05:56	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/17/10 05:56	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/17/10 05:56	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		07/17/10 05:56	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/17/10 05:56	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/17/10 05:56	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		07/17/10 05:56	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		07/17/10 05:56	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		07/17/10 05:56	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/17/10 05:56	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/17/10 05:56	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		07/17/10 05:56	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		07/17/10 05:56	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		07/17/10 05:56	87-68-3	
n-Hexane	ND ug/L		5.0	1		07/17/10 05:56	110-54-3	
2-Hexanone	ND ug/L		25.0	1		07/17/10 05:56	591-78-6	
Iodomethane	ND ug/L		10.0	1		07/17/10 05:56	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		07/17/10 05:56	98-82-8	

Date: 07/22/2010 12:52 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: MW-170D	Lab ID: 5039176001	Collected: 07/07/10 13:20	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		07/17/10 05:56	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/17/10 05:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/17/10 05:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/17/10 05:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/17/10 05:56	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/17/10 05:56	103-65-1	
Styrene	ND	ug/L	5.0	1		07/17/10 05:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/17/10 05:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/17/10 05:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/17/10 05:56	127-18-4	
Toluene	ND	ug/L	5.0	1		07/17/10 05:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/17/10 05:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/17/10 05:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/17/10 05:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/17/10 05:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/17/10 05:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/17/10 05:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/17/10 05:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/17/10 05:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/17/10 05:56	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		07/17/10 05:56	108-05-4	
Vinyl chloride	233	ug/L	2.0	1		07/17/10 05:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/17/10 05:56	1330-20-7	
Dibromofluoromethane (S)	109 %		80-123	1		07/17/10 05:56	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	1		07/17/10 05:56	460-00-4	
Toluene-d8 (S)	96 %		80-116	1		07/17/10 05:56	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: MW-165D	Lab ID: 5039176002	Collected: 07/07/10 15:15	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		07/20/10 16:25	67-64-1	
Acrolein	ND ug/L		50.0	1		07/20/10 16:25	107-02-8	
Acrylonitrile	ND ug/L		100	1		07/20/10 16:25	107-13-1	
Benzene	ND ug/L		5.0	1		07/20/10 16:25	71-43-2	
Bromobenzene	ND ug/L		5.0	1		07/20/10 16:25	108-86-1	
Bromoform	ND ug/L		5.0	1		07/20/10 16:25	74-97-5	
Bromochloromethane	ND ug/L		5.0	1		07/20/10 16:25	75-27-4	
Bromodichloromethane	ND ug/L		5.0	1		07/20/10 16:25	75-25-2	
Bromoform	ND ug/L		5.0	1		07/20/10 16:25	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		07/20/10 16:25	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		07/20/10 16:25	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		07/20/10 16:25	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		07/20/10 16:25	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		07/20/10 16:25	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		07/20/10 16:25	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		07/20/10 16:25	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/20/10 16:25	75-00-3	
Chloroform	ND ug/L		5.0	1		07/20/10 16:25	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/20/10 16:25	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		07/20/10 16:25	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		07/20/10 16:25	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		07/20/10 16:25	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		07/20/10 16:25	106-93-4	
Dibromomethane	ND ug/L		5.0	1		07/20/10 16:25	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/20/10 16:25	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/20/10 16:25	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/20/10 16:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		07/20/10 16:25	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		07/20/10 16:25	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		07/20/10 16:25	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/20/10 16:25	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/20/10 16:25	75-35-4	
cis-1,2-Dichloroethene	122 ug/L		5.0	1		07/20/10 16:25	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/20/10 16:25	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/20/10 16:25	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		07/20/10 16:25	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		07/20/10 16:25	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		07/20/10 16:25	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/20/10 16:25	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/20/10 16:25	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		07/20/10 16:25	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		07/20/10 16:25	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		07/20/10 16:25	87-68-3	
n-Hexane	ND ug/L		5.0	1		07/20/10 16:25	110-54-3	
2-Hexanone	ND ug/L		25.0	1		07/20/10 16:25	591-78-6	
Iodomethane	ND ug/L		10.0	1		07/20/10 16:25	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		07/20/10 16:25	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: MW-165D	Lab ID: 5039176002	Collected: 07/07/10 15:15	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		07/20/10 16:25	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/20/10 16:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/20/10 16:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/20/10 16:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/20/10 16:25	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/20/10 16:25	103-65-1	
Styrene	ND	ug/L	5.0	1		07/20/10 16:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/20/10 16:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/20/10 16:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/20/10 16:25	127-18-4	
Toluene	ND	ug/L	5.0	1		07/20/10 16:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/20/10 16:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/20/10 16:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/20/10 16:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/20/10 16:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/20/10 16:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/20/10 16:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/20/10 16:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/20/10 16:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/20/10 16:25	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		07/20/10 16:25	108-05-4	
Vinyl chloride	202	ug/L	2.0	1		07/20/10 16:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/20/10 16:25	1330-20-7	
Dibromofluoromethane (S)	105 %		80-123	1		07/20/10 16:25	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		07/20/10 16:25	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		07/20/10 16:25	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: MMW-P-01	Lab ID: 5039176003	Collected: 07/07/10 16:55	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		1000	10		07/17/10 07:32	67-64-1	
Acrolein	ND ug/L		500	10		07/17/10 07:32	107-02-8	
Acrylonitrile	ND ug/L		1000	10		07/17/10 07:32	107-13-1	
Benzene	ND ug/L		50.0	10		07/17/10 07:32	71-43-2	
Bromobenzene	ND ug/L		50.0	10		07/17/10 07:32	108-86-1	
Bromochloromethane	ND ug/L		50.0	10		07/17/10 07:32	74-97-5	
Bromodichloromethane	ND ug/L		50.0	10		07/17/10 07:32	75-27-4	
Bromoform	ND ug/L		50.0	10		07/17/10 07:32	75-25-2	
Bromomethane	ND ug/L		50.0	10		07/17/10 07:32	74-83-9	
2-Butanone (MEK)	ND ug/L		250	10		07/17/10 07:32	78-93-3	
n-Butylbenzene	ND ug/L		50.0	10		07/17/10 07:32	104-51-8	
sec-Butylbenzene	ND ug/L		50.0	10		07/17/10 07:32	135-98-8	
tert-Butylbenzene	ND ug/L		50.0	10		07/17/10 07:32	98-06-6	
Carbon disulfide	ND ug/L		100	10		07/17/10 07:32	75-15-0	
Carbon tetrachloride	ND ug/L		50.0	10		07/17/10 07:32	56-23-5	
Chlorobenzene	ND ug/L		50.0	10		07/17/10 07:32	108-90-7	
Chloroethane	ND ug/L		50.0	10		07/17/10 07:32	75-00-3	
Chloroform	ND ug/L		50.0	10		07/17/10 07:32	67-66-3	
Chloromethane	ND ug/L		50.0	10		07/17/10 07:32	74-87-3	
2-Chlorotoluene	ND ug/L		50.0	10		07/17/10 07:32	95-49-8	
4-Chlorotoluene	ND ug/L		50.0	10		07/17/10 07:32	106-43-4	
Dibromochloromethane	ND ug/L		50.0	10		07/17/10 07:32	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		50.0	10		07/17/10 07:32	106-93-4	
Dibromomethane	ND ug/L		50.0	10		07/17/10 07:32	74-95-3	
1,2-Dichlorobenzene	ND ug/L		50.0	10		07/17/10 07:32	95-50-1	
1,3-Dichlorobenzene	ND ug/L		50.0	10		07/17/10 07:32	541-73-1	
1,4-Dichlorobenzene	ND ug/L		50.0	10		07/17/10 07:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1000	10		07/17/10 07:32	110-57-6	
Dichlorodifluoromethane	ND ug/L		50.0	10		07/17/10 07:32	75-71-8	
1,1-Dichloroethane	ND ug/L		50.0	10		07/17/10 07:32	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		07/17/10 07:32	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		07/17/10 07:32	75-35-4	
cis-1,2-Dichloroethene	1880 ug/L		50.0	10		07/17/10 07:32	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		07/17/10 07:32	156-60-5	
1,2-Dichloropropane	ND ug/L		50.0	10		07/17/10 07:32	78-87-5	
1,3-Dichloropropane	ND ug/L		50.0	10		07/17/10 07:32	142-28-9	
2,2-Dichloropropane	ND ug/L		50.0	10		07/17/10 07:32	594-20-7	
1,1-Dichloropropene	ND ug/L		50.0	10		07/17/10 07:32	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		50.0	10		07/17/10 07:32	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		50.0	10		07/17/10 07:32	10061-02-6	
Ethylbenzene	ND ug/L		50.0	10		07/17/10 07:32	100-41-4	
Ethyl methacrylate	ND ug/L		1000	10		07/17/10 07:32	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		50.0	10		07/17/10 07:32	87-68-3	
n-Hexane	ND ug/L		50.0	10		07/17/10 07:32	110-54-3	
2-Hexanone	ND ug/L		250	10		07/17/10 07:32	591-78-6	
Iodomethane	ND ug/L		100	10		07/17/10 07:32	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		50.0	10		07/17/10 07:32	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: MMW-P-01	Lab ID: 5039176003	Collected: 07/07/10 16:55	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	50.0	10		07/17/10 07:32	99-87-6	
Methylene chloride	ND	ug/L	50.0	10		07/17/10 07:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		07/17/10 07:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	40.0	10		07/17/10 07:32	1634-04-4	
Naphthalene	ND	ug/L	50.0	10		07/17/10 07:32	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	10		07/17/10 07:32	103-65-1	
Styrene	ND	ug/L	50.0	10		07/17/10 07:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		07/17/10 07:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		07/17/10 07:32	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	10		07/17/10 07:32	127-18-4	
Toluene	ND	ug/L	50.0	10		07/17/10 07:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		07/17/10 07:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		07/17/10 07:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		07/17/10 07:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	10		07/17/10 07:32	79-00-5	
Trichloroethene	ND	ug/L	50.0	10		07/17/10 07:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	10		07/17/10 07:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	10		07/17/10 07:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	10		07/17/10 07:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	10		07/17/10 07:32	108-67-8	
Vinyl acetate	ND	ug/L	100	10		07/17/10 07:32	108-05-4	
Vinyl chloride	2960	ug/L	20.0	10		07/17/10 07:32	75-01-4	
Xylene (Total)	ND	ug/L	100	10		07/17/10 07:32	1330-20-7	
Dibromofluoromethane (S)	113 %		80-123	10		07/17/10 07:32	1868-53-7	1d
4-Bromofluorobenzene (S)	99 %		70-126	10		07/17/10 07:32	460-00-4	
Toluene-d8 (S)	102 %		80-116	10		07/17/10 07:32	2037-26-5	

ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: Dup	Lab ID: 5039176004	Collected: 07/07/10 08:00	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		1000	10		07/17/10 08:36	67-64-1	
Acrolein	ND ug/L		500	10		07/17/10 08:36	107-02-8	
Acrylonitrile	ND ug/L		1000	10		07/17/10 08:36	107-13-1	
Benzene	ND ug/L		50.0	10		07/17/10 08:36	71-43-2	
Bromobenzene	ND ug/L		50.0	10		07/17/10 08:36	108-86-1	
Bromochloromethane	ND ug/L		50.0	10		07/17/10 08:36	74-97-5	
Bromodichloromethane	ND ug/L		50.0	10		07/17/10 08:36	75-27-4	
Bromoform	ND ug/L		50.0	10		07/17/10 08:36	75-25-2	
Bromomethane	ND ug/L		50.0	10		07/17/10 08:36	74-83-9	
2-Butanone (MEK)	ND ug/L		250	10		07/17/10 08:36	78-93-3	
n-Butylbenzene	ND ug/L		50.0	10		07/17/10 08:36	104-51-8	
sec-Butylbenzene	ND ug/L		50.0	10		07/17/10 08:36	135-98-8	
tert-Butylbenzene	ND ug/L		50.0	10		07/17/10 08:36	98-06-6	
Carbon disulfide	ND ug/L		100	10		07/17/10 08:36	75-15-0	
Carbon tetrachloride	ND ug/L		50.0	10		07/17/10 08:36	56-23-5	
Chlorobenzene	ND ug/L		50.0	10		07/17/10 08:36	108-90-7	
Chloroethane	ND ug/L		50.0	10		07/17/10 08:36	75-00-3	
Chloroform	ND ug/L		50.0	10		07/17/10 08:36	67-66-3	
Chloromethane	ND ug/L		50.0	10		07/17/10 08:36	74-87-3	
2-Chlorotoluene	ND ug/L		50.0	10		07/17/10 08:36	95-49-8	
4-Chlorotoluene	ND ug/L		50.0	10		07/17/10 08:36	106-43-4	
Dibromochloromethane	ND ug/L		50.0	10		07/17/10 08:36	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		50.0	10		07/17/10 08:36	106-93-4	
Dibromomethane	ND ug/L		50.0	10		07/17/10 08:36	74-95-3	
1,2-Dichlorobenzene	ND ug/L		50.0	10		07/17/10 08:36	95-50-1	
1,3-Dichlorobenzene	ND ug/L		50.0	10		07/17/10 08:36	541-73-1	
1,4-Dichlorobenzene	ND ug/L		50.0	10		07/17/10 08:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		1000	10		07/17/10 08:36	110-57-6	
Dichlorodifluoromethane	ND ug/L		50.0	10		07/17/10 08:36	75-71-8	
1,1-Dichloroethane	ND ug/L		50.0	10		07/17/10 08:36	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		07/17/10 08:36	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		07/17/10 08:36	75-35-4	
cis-1,2-Dichloroethene	1480 ug/L		50.0	10		07/17/10 08:36	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		07/17/10 08:36	156-60-5	
1,2-Dichloropropane	ND ug/L		50.0	10		07/17/10 08:36	78-87-5	
1,3-Dichloropropane	ND ug/L		50.0	10		07/17/10 08:36	142-28-9	
2,2-Dichloropropane	ND ug/L		50.0	10		07/17/10 08:36	594-20-7	
1,1-Dichloropropene	ND ug/L		50.0	10		07/17/10 08:36	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		50.0	10		07/17/10 08:36	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		50.0	10		07/17/10 08:36	10061-02-6	
Ethylbenzene	ND ug/L		50.0	10		07/17/10 08:36	100-41-4	
Ethyl methacrylate	ND ug/L		1000	10		07/17/10 08:36	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		50.0	10		07/17/10 08:36	87-68-3	
n-Hexane	ND ug/L		50.0	10		07/17/10 08:36	110-54-3	
2-Hexanone	ND ug/L		250	10		07/17/10 08:36	591-78-6	
Iodomethane	ND ug/L		100	10		07/17/10 08:36	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		50.0	10		07/17/10 08:36	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: Dup	Lab ID: 5039176004	Collected: 07/07/10 08:00	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	50.0	10		07/17/10 08:36	99-87-6	
Methylene chloride	ND	ug/L	50.0	10		07/17/10 08:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		07/17/10 08:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	40.0	10		07/17/10 08:36	1634-04-4	
Naphthalene	ND	ug/L	50.0	10		07/17/10 08:36	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	10		07/17/10 08:36	103-65-1	
Styrene	ND	ug/L	50.0	10		07/17/10 08:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		07/17/10 08:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		07/17/10 08:36	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	10		07/17/10 08:36	127-18-4	
Toluene	ND	ug/L	50.0	10		07/17/10 08:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		07/17/10 08:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		07/17/10 08:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		07/17/10 08:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	10		07/17/10 08:36	79-00-5	
Trichloroethene	ND	ug/L	50.0	10		07/17/10 08:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	10		07/17/10 08:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	10		07/17/10 08:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	10		07/17/10 08:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	10		07/17/10 08:36	108-67-8	
Vinyl acetate	ND	ug/L	100	10		07/17/10 08:36	108-05-4	
Vinyl chloride	2980	ug/L	20.0	10		07/17/10 08:36	75-01-4	
Xylene (Total)	ND	ug/L	100	10		07/17/10 08:36	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	10		07/17/10 08:36	1868-53-7	1d
4-Bromofluorobenzene (S)	103 %		70-126	10		07/17/10 08:36	460-00-4	
Toluene-d8 (S)	98 %		80-116	10		07/17/10 08:36	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: Trip Blank	Lab ID: 5039176005	Collected: 07/07/10 08:00	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		07/17/10 09:40	67-64-1	
Acrolein	ND ug/L		50.0	1		07/17/10 09:40	107-02-8	
Acrylonitrile	ND ug/L		100	1		07/17/10 09:40	107-13-1	
Benzene	ND ug/L		5.0	1		07/17/10 09:40	71-43-2	
Bromobenzene	ND ug/L		5.0	1		07/17/10 09:40	108-86-1	
Bromoform	ND ug/L		5.0	1		07/17/10 09:40	74-97-5	
Bromochloromethane	ND ug/L		5.0	1		07/17/10 09:40	75-27-4	
Bromodichloromethane	ND ug/L		5.0	1		07/17/10 09:40	75-25-2	
Bromoform	ND ug/L		5.0	1		07/17/10 09:40	74-83-9	
Bromomethane	ND ug/L		5.0	1		07/17/10 09:40	78-93-3	
2-Butanone (MEK)	ND ug/L		25.0	1		07/17/10 09:40	104-51-8	
n-Butylbenzene	ND ug/L		5.0	1		07/17/10 09:40	135-98-8	
sec-Butylbenzene	ND ug/L		5.0	1		07/17/10 09:40	98-06-6	
tert-Butylbenzene	ND ug/L		5.0	1		07/17/10 09:40	75-15-0	
Carbon disulfide	ND ug/L		10.0	1		07/17/10 09:40	56-23-5	
Carbon tetrachloride	ND ug/L		5.0	1		07/17/10 09:40	124-48-1	
Chlorobenzene	ND ug/L		5.0	1		07/17/10 09:40	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/17/10 09:40	75-00-3	
Chloroform	ND ug/L		5.0	1		07/17/10 09:40	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/17/10 09:40	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		07/17/10 09:40	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		07/17/10 09:40	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		07/17/10 09:40	142-28-9	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		07/17/10 09:40	10061-01-5	
Dibromomethane	ND ug/L		5.0	1		07/17/10 09:40	110-57-6	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/17/10 09:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/17/10 09:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/17/10 09:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		07/17/10 09:40	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		07/17/10 09:40	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		07/17/10 09:40	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/17/10 09:40	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/17/10 09:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		07/17/10 09:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/17/10 09:40	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/17/10 09:40	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		07/17/10 09:40	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		07/17/10 09:40	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		07/17/10 09:40	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/17/10 09:40	10061-02-6	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/17/10 09:40	10061-05-1	
Ethylbenzene	ND ug/L		5.0	1		07/17/10 09:40	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		07/17/10 09:40	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		07/17/10 09:40	87-68-3	
n-Hexane	ND ug/L		5.0	1		07/17/10 09:40	110-54-3	
2-Hexanone	ND ug/L		25.0	1		07/17/10 09:40	591-78-6	
Iodomethane	ND ug/L		10.0	1		07/17/10 09:40	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		07/17/10 09:40	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza
Pace Project No.: 5039176

Sample: Trip Blank	Lab ID: 5039176005	Collected: 07/07/10 08:00	Received: 07/08/10 10:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		07/17/10 09:40	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/17/10 09:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/17/10 09:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/17/10 09:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/17/10 09:40	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/17/10 09:40	103-65-1	
Styrene	ND	ug/L	5.0	1		07/17/10 09:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/17/10 09:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/17/10 09:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/17/10 09:40	127-18-4	
Toluene	ND	ug/L	5.0	1		07/17/10 09:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/17/10 09:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/17/10 09:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/17/10 09:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/17/10 09:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/17/10 09:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/17/10 09:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/17/10 09:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/17/10 09:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/17/10 09:40	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		07/17/10 09:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/17/10 09:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/17/10 09:40	1330-20-7	
Dibromofluoromethane (S)	115 %		80-123	1		07/17/10 09:40	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	1		07/17/10 09:40	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		07/17/10 09:40	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

QC Batch: MSV/25415 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5039176001, 5039176003, 5039176004, 5039176005

METHOD BLANK: 457603 Matrix: Water

Associated Lab Samples: 5039176001, 5039176003, 5039176004, 5039176005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	07/17/10 00:36	
1,1,1-Trichloroethane	ug/L	ND	5.0	07/17/10 00:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/17/10 00:36	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/17/10 00:36	
1,1-Dichloroethane	ug/L	ND	5.0	07/17/10 00:36	
1,1-Dichloroethene	ug/L	ND	5.0	07/17/10 00:36	
1,1-Dichloropropene	ug/L	ND	5.0	07/17/10 00:36	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	07/17/10 00:36	
1,2,3-Trichloropropane	ug/L	ND	5.0	07/17/10 00:36	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/17/10 00:36	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	07/17/10 00:36	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	07/17/10 00:36	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/17/10 00:36	
1,2-Dichloroethane	ug/L	ND	5.0	07/17/10 00:36	
1,2-Dichloropropane	ug/L	ND	5.0	07/17/10 00:36	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	07/17/10 00:36	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/17/10 00:36	
1,3-Dichloropropane	ug/L	ND	5.0	07/17/10 00:36	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/17/10 00:36	
2,2-Dichloropropane	ug/L	ND	5.0	07/17/10 00:36	
2-Butanone (MEK)	ug/L	ND	25.0	07/17/10 00:36	
2-Chlorotoluene	ug/L	ND	5.0	07/17/10 00:36	
2-Hexanone	ug/L	ND	25.0	07/17/10 00:36	
4-Chlorotoluene	ug/L	ND	5.0	07/17/10 00:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	07/17/10 00:36	
Acetone	ug/L	ND	100	07/17/10 00:36	
Acrolein	ug/L	ND	50.0	07/17/10 00:36	
Acrylonitrile	ug/L	ND	100	07/17/10 00:36	
Benzene	ug/L	ND	5.0	07/17/10 00:36	
Bromobenzene	ug/L	ND	5.0	07/17/10 00:36	
Bromochloromethane	ug/L	ND	5.0	07/17/10 00:36	
Bromodichloromethane	ug/L	ND	5.0	07/17/10 00:36	
Bromoform	ug/L	ND	5.0	07/17/10 00:36	
Bromomethane	ug/L	ND	5.0	07/17/10 00:36	
Carbon disulfide	ug/L	ND	10.0	07/17/10 00:36	
Carbon tetrachloride	ug/L	ND	5.0	07/17/10 00:36	
Chlorobenzene	ug/L	ND	5.0	07/17/10 00:36	
Chloroethane	ug/L	ND	5.0	07/17/10 00:36	
Chloroform	ug/L	ND	5.0	07/17/10 00:36	
Chloromethane	ug/L	ND	5.0	07/17/10 00:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/17/10 00:36	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/17/10 00:36	
Dibromochloromethane	ug/L	ND	5.0	07/17/10 00:36	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

METHOD BLANK: 457603 Matrix: Water

Associated Lab Samples: 5039176001, 5039176003, 5039176004, 5039176005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	07/17/10 00:36	
Dichlorodifluoromethane	ug/L	ND	5.0	07/17/10 00:36	
Ethyl methacrylate	ug/L	ND	100	07/17/10 00:36	
Ethylbenzene	ug/L	ND	5.0	07/17/10 00:36	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/17/10 00:36	
Iodomethane	ug/L	ND	10.0	07/17/10 00:36	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	07/17/10 00:36	
Methyl-tert-butyl ether	ug/L	ND	4.0	07/17/10 00:36	
Methylene chloride	ug/L	ND	5.0	07/17/10 00:36	
n-Butylbenzene	ug/L	ND	5.0	07/17/10 00:36	
n-Hexane	ug/L	ND	5.0	07/17/10 00:36	
n-Propylbenzene	ug/L	ND	5.0	07/17/10 00:36	
Naphthalene	ug/L	ND	5.0	07/17/10 00:36	
p-Isopropyltoluene	ug/L	ND	5.0	07/17/10 00:36	
sec-Butylbenzene	ug/L	ND	5.0	07/17/10 00:36	
Styrene	ug/L	ND	5.0	07/17/10 00:36	
tert-Butylbenzene	ug/L	ND	5.0	07/17/10 00:36	
Tetrachloroethene	ug/L	ND	5.0	07/17/10 00:36	
Toluene	ug/L	ND	5.0	07/17/10 00:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/17/10 00:36	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/17/10 00:36	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	07/17/10 00:36	
Trichloroethene	ug/L	ND	5.0	07/17/10 00:36	
Trichlorofluoromethane	ug/L	ND	5.0	07/17/10 00:36	
Vinyl acetate	ug/L	ND	10.0	07/17/10 00:36	
Vinyl chloride	ug/L	ND	2.0	07/17/10 00:36	
Xylene (Total)	ug/L	ND	10.0	07/17/10 00:36	
4-Bromofluorobenzene (S)	%	98	70-126	07/17/10 00:36	
Dibromofluoromethane (S)	%	107	80-123	07/17/10 00:36	
Toluene-d8 (S)	%	93	80-116	07/17/10 00:36	

LABORATORY CONTROL SAMPLE: 457604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.2	96	69-130	
1,1,1-Trichloroethane	ug/L	50	48.0	96	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	69-131	
1,1,2-Trichloroethane	ug/L	50	56.7	113	77-132	
1,1-Dichloroethane	ug/L	50	46.7	93	67-133	
1,1-Dichloroethene	ug/L	50	43.5	87	63-128	
1,1-Dichloropropene	ug/L	50	51.8	104	75-134	
1,2,3-Trichlorobenzene	ug/L	50	49.0	98	58-131	
1,2,3-Trichloropropane	ug/L	100	70.7	71	60-131	
1,2,4-Trichlorobenzene	ug/L	50	46.9	94	60-130	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	73-130	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

LABORATORY CONTROL SAMPLE: 457604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	59.3	119	75-126	
1,2-Dichlorobenzene	ug/L	50	52.3	105	76-124	
1,2-Dichloroethane	ug/L	50	50.6	101	69-139	
1,2-Dichloropropane	ug/L	50	52.5	105	76-129	
1,3,5-Trimethylbenzene	ug/L	50	54.3	109	74-130	
1,3-Dichlorobenzene	ug/L	50	51.9	104	76-125	
1,3-Dichloropropane	ug/L	50	58.6	117	74-126	
1,4-Dichlorobenzene	ug/L	50	50.8	102	75-122	
2,2-Dichloropropane	ug/L	50	36.6	73	53-144	
2-Butanone (MEK)	ug/L	250	284	114	47-189	
2-Chlorotoluene	ug/L	50	53.7	107	72-128	
2-Hexanone	ug/L	250	290	116	57-167	
4-Chlorotoluene	ug/L	50	53.7	107	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	291	116	61-135	
Acetone	ug/L	250	232	93	30-170	
Acrolein	ug/L	1000	648	65	30-170	
Acrylonitrile	ug/L	1000	995	99	67-136	
Benzene	ug/L	50	49.3	99	78-127	
Bromobenzene	ug/L	50	53.7	107	62-139	
Bromochloromethane	ug/L	50	61.0	122	54-162	
Bromodichloromethane	ug/L	50	41.0	82	69-133	
Bromoform	ug/L	50	43.4	87	60-127	
Bromomethane	ug/L	50	49.2	98	30-170	
Carbon disulfide	ug/L	100	83.0	83	58-152	
Carbon tetrachloride	ug/L	50	45.1	90	62-143	
Chlorobenzene	ug/L	50	52.7	105	75-123	
Chloroethane	ug/L	50	43.3	87	56-153	
Chloroform	ug/L	50	53.3	107	74-131	
Chloromethane	ug/L	50	41.2	82	35-147	
cis-1,2-Dichloroethene	ug/L	50	56.4	113	74-128	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	58-123	
Dibromochloromethane	ug/L	50	51.4	103	66-131	
Dibromomethane	ug/L	50	46.3	93	73-133	
Dichlorodifluoromethane	ug/L	50	50.4	101	30-170	
Ethyl methacrylate	ug/L	200	206	103	59-138	
Ethylbenzene	ug/L	50	50.4	101	81-126	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	70-130	
Iodomethane	ug/L	100	78.3	78	41-170	
Isopropylbenzene (Cumene)	ug/L	50	51.3	103	80-130	
Methyl-tert-butyl ether	ug/L	100	83.2	83	66-147	
Methylene chloride	ug/L	50	38.5	77	32-164	
n-Butylbenzene	ug/L	50	54.8	110	68-135	
n-Hexane	ug/L	50	32.1	64	69-157 L0	
n-Propylbenzene	ug/L	50	51.9	104	71-132	
Naphthalene	ug/L	50	49.9	100	61-135	
p-Isopropyltoluene	ug/L	50	54.1	108	66-131	
sec-Butylbenzene	ug/L	50	53.2	106	73-130	
Styrene	ug/L	50	57.6	115	74-128	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

LABORATORY CONTROL SAMPLE: 457604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	41.5	83	63-117	
Tetrachloroethene	ug/L	50	55.9	112	60-119	
Toluene	ug/L	50	50.9	102	75-129	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	71-126	
trans-1,3-Dichloropropene	ug/L	50	44.6	89	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	163	82	47-141	
Trichloroethene	ug/L	50	48.8	98	74-130	
Trichlorofluoromethane	ug/L	50	43.7	87	62-150	
Vinyl acetate	ug/L	200	140	70	41-145	
Vinyl chloride	ug/L	50	43.8	88	55-141	
Xylene (Total)	ug/L	150	156	104	76-132	
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			107	80-123	
Toluene-d8 (S)	%			99	80-116	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

QC Batch:	MSV/25464	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5039176002		

METHOD BLANK: 458238 Matrix: Water

Associated Lab Samples: 5039176002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	07/20/10 13:18	
1,1,1-Trichloroethane	ug/L	ND	5.0	07/20/10 13:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/20/10 13:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/20/10 13:18	
1,1-Dichloroethane	ug/L	ND	5.0	07/20/10 13:18	
1,1-Dichloroethene	ug/L	ND	5.0	07/20/10 13:18	
1,1-Dichloropropene	ug/L	ND	5.0	07/20/10 13:18	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	07/20/10 13:18	
1,2,3-Trichloropropane	ug/L	ND	5.0	07/20/10 13:18	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/20/10 13:18	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	07/20/10 13:18	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	07/20/10 13:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/20/10 13:18	
1,2-Dichloroethane	ug/L	ND	5.0	07/20/10 13:18	
1,2-Dichloropropane	ug/L	ND	5.0	07/20/10 13:18	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	07/20/10 13:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/20/10 13:18	
1,3-Dichloropropane	ug/L	ND	5.0	07/20/10 13:18	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/20/10 13:18	
2,2-Dichloropropane	ug/L	ND	5.0	07/20/10 13:18	
2-Butanone (MEK)	ug/L	ND	25.0	07/20/10 13:18	
2-Chlorotoluene	ug/L	ND	5.0	07/20/10 13:18	
2-Hexanone	ug/L	ND	25.0	07/20/10 13:18	
4-Chlorotoluene	ug/L	ND	5.0	07/20/10 13:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	07/20/10 13:18	
Acetone	ug/L	ND	100	07/20/10 13:18	
Acrolein	ug/L	ND	50.0	07/20/10 13:18	
Acrylonitrile	ug/L	ND	100	07/20/10 13:18	
Benzene	ug/L	ND	5.0	07/20/10 13:18	
Bromobenzene	ug/L	ND	5.0	07/20/10 13:18	
Bromochloromethane	ug/L	ND	5.0	07/20/10 13:18	
Bromodichloromethane	ug/L	ND	5.0	07/20/10 13:18	
Bromoform	ug/L	ND	5.0	07/20/10 13:18	
Bromomethane	ug/L	ND	5.0	07/20/10 13:18	
Carbon disulfide	ug/L	ND	10.0	07/20/10 13:18	
Carbon tetrachloride	ug/L	ND	5.0	07/20/10 13:18	
Chlorobenzene	ug/L	ND	5.0	07/20/10 13:18	
Chloroethane	ug/L	ND	5.0	07/20/10 13:18	
Chloroform	ug/L	ND	5.0	07/20/10 13:18	
Chloromethane	ug/L	ND	5.0	07/20/10 13:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/20/10 13:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/20/10 13:18	
Dibromochloromethane	ug/L	ND	5.0	07/20/10 13:18	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

METHOD BLANK: 458238 Matrix: Water

Associated Lab Samples: 5039176002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	07/20/10 13:18	
Dichlorodifluoromethane	ug/L	ND	5.0	07/20/10 13:18	
Ethyl methacrylate	ug/L	ND	100	07/20/10 13:18	
Ethylbenzene	ug/L	ND	5.0	07/20/10 13:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/20/10 13:18	
Iodomethane	ug/L	ND	10.0	07/20/10 13:18	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	07/20/10 13:18	
Methyl-tert-butyl ether	ug/L	ND	4.0	07/20/10 13:18	
Methylene chloride	ug/L	ND	5.0	07/20/10 13:18	
n-Butylbenzene	ug/L	ND	5.0	07/20/10 13:18	
n-Hexane	ug/L	ND	5.0	07/20/10 13:18	
n-Propylbenzene	ug/L	ND	5.0	07/20/10 13:18	
Naphthalene	ug/L	ND	5.0	07/20/10 13:18	
p-Isopropyltoluene	ug/L	ND	5.0	07/20/10 13:18	
sec-Butylbenzene	ug/L	ND	5.0	07/20/10 13:18	
Styrene	ug/L	ND	5.0	07/20/10 13:18	
tert-Butylbenzene	ug/L	ND	5.0	07/20/10 13:18	
Tetrachloroethene	ug/L	ND	5.0	07/20/10 13:18	
Toluene	ug/L	ND	5.0	07/20/10 13:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/20/10 13:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/20/10 13:18	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	07/20/10 13:18	
Trichloroethene	ug/L	ND	5.0	07/20/10 13:18	
Trichlorofluoromethane	ug/L	ND	5.0	07/20/10 13:18	
Vinyl acetate	ug/L	ND	10.0	07/20/10 13:18	
Vinyl chloride	ug/L	ND	2.0	07/20/10 13:18	
Xylene (Total)	ug/L	ND	10.0	07/20/10 13:18	
4-Bromofluorobenzene (S)	%	100	70-126	07/20/10 13:18	
Dibromofluoromethane (S)	%	108	80-123	07/20/10 13:18	
Toluene-d8 (S)	%	102	80-116	07/20/10 13:18	

LABORATORY CONTROL SAMPLE: 458239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.6	97	69-130	
1,1,1-Trichloroethane	ug/L	50	53.4	107	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	69-131	
1,1,2-Trichloroethane	ug/L	50	50.4	101	77-132	
1,1-Dichloroethane	ug/L	50	52.6	105	67-133	
1,1-Dichloroethene	ug/L	50	53.7	107	63-128	
1,1-Dichloropropene	ug/L	50	50.2	100	75-134	
1,2,3-Trichlorobenzene	ug/L	50	47.8	96	58-131	
1,2,3-Trichloropropane	ug/L	100	93.1	93	60-131	
1,2,4-Trichlorobenzene	ug/L	50	49.5	99	60-130	
1,2,4-Trimethylbenzene	ug/L	50	49.1	98	73-130	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

LABORATORY CONTROL SAMPLE: 458239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	75-126	
1,2-Dichlorobenzene	ug/L	50	49.1	98	76-124	
1,2-Dichloroethane	ug/L	50	53.3	107	69-139	
1,2-Dichloropropane	ug/L	50	51.0	102	76-129	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	74-130	
1,3-Dichlorobenzene	ug/L	50	50.3	101	76-125	
1,3-Dichloropropane	ug/L	50	50.9	102	74-126	
1,4-Dichlorobenzene	ug/L	50	49.2	98	75-122	
2,2-Dichloropropane	ug/L	50	52.6	105	53-144	
2-Butanone (MEK)	ug/L	250	348	139	47-189	
2-Chlorotoluene	ug/L	50	51.4	103	72-128	
2-Hexanone	ug/L	250	340	136	57-167	
4-Chlorotoluene	ug/L	50	50.6	101	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	255	102	61-135	
Acetone	ug/L	250	395	158	30-170	
Acrolein	ug/L	1000	1630	163	30-170	
Acrylonitrile	ug/L	1000	1100	110	67-136	
Benzene	ug/L	50	50.0	100	78-127	
Bromobenzene	ug/L	50	49.6	99	62-139	
Bromochloromethane	ug/L	50	52.4	105	54-162	
Bromodichloromethane	ug/L	50	49.3	99	69-133	
Bromoform	ug/L	50	44.8	90	60-127	
Bromomethane	ug/L	50	72.0	144	30-170	
Carbon disulfide	ug/L	100	95.6	96	58-152	
Carbon tetrachloride	ug/L	50	49.9	100	62-143	
Chlorobenzene	ug/L	50	48.7	97	75-123	
Chloroethane	ug/L	50	66.0	132	56-153	
Chloroform	ug/L	50	51.8	104	74-131	
Chloromethane	ug/L	50	66.8	134	35-147	
cis-1,2-Dichloroethene	ug/L	50	56.3	113	74-128	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	58-123	
Dibromochloromethane	ug/L	50	47.4	95	66-131	
Dibromomethane	ug/L	50	50.6	101	73-133	
Dichlorodifluoromethane	ug/L	50	112	224	30-170 L3	
Ethyl methacrylate	ug/L	200	201	101	59-138	
Ethylbenzene	ug/L	50	49.0	98	81-126	
Hexachloro-1,3-butadiene	ug/L	50	50.9	102	70-130	
Iodomethane	ug/L	100	104	104	41-170	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	80-130	
Methyl-tert-butyl ether	ug/L	100	106	106	66-147	
Methylene chloride	ug/L	50	52.2	104	32-164	
n-Butylbenzene	ug/L	50	52.6	105	68-135	
n-Hexane	ug/L	50	52.6	105	69-157	
n-Propylbenzene	ug/L	50	51.3	103	71-132	
Naphthalene	ug/L	50	46.2	92	61-135	
p-Isopropyltoluene	ug/L	50	50.5	101	66-131	
sec-Butylbenzene	ug/L	50	49.8	100	73-130	
Styrene	ug/L	50	50.1	100	74-128	

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

LABORATORY CONTROL SAMPLE: 458239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	40.8	82	63-117	
Tetrachloroethene	ug/L	50	47.3	95	60-119	
Toluene	ug/L	50	50.1	100	75-129	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	71-126	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	186	93	47-141	
Trichloroethene	ug/L	50	51.7	103	74-130	
Trichlorofluoromethane	ug/L	50	64.5	129	62-150	
Vinyl acetate	ug/L	200	162	81	41-145	
Vinyl chloride	ug/L	50	73.3	147	55-141 LO	
Xylene (Total)	ug/L	150	147	98	76-132	
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			107	80-123	
Toluene-d8 (S)	%			101	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 458240 458241

Parameter	Units	5039166001		MS Spike Conc.		MSD Spike Conc.		MS Result		MSD Result		MS % Rec		MSD % Rec		% Rec Limits		Max RPD		Max RPD		Qual		
		Result	Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	52.8	49.6	106	99	55-131	6	20													
1,1,1-Trichloroethane	ug/L	ND	50	50	54.1	53.2	108	106	64-143	2	20													
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	52.7	48.6	105	97	64-142	8	20													
1,1,2-Trichloroethane	ug/L	ND	50	50	56.4	51.4	113	103	71-143	9	20													
1,1-Dichloroethane	ug/L	ND	50	50	53.4	50.5	107	101	68-139	6	20													
1,1-Dichloroethene	ug/L	ND	50	50	55.0	52.8	110	106	55-140	4	20													
1,1-Dichloropropene	ug/L	ND	50	50	51.5	50.0	103	100	66-140	3	20													
1,2,3-Trichlorobenzene	ug/L	ND	50	50	51.6	47.5	103	95	33-140	8	20													
1,2,3-Trichloropropane	ug/L	ND	100	100	104	94.4	104	94	58-133	9	20													
1,2,4-Trichlorobenzene	ug/L	ND	50	50	52.8	48.0	106	96	28-140	9	20													
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.9	46.6	102	93	39-146	9	20													
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	55.7	51.2	111	102	67-134	8	20													
1,2-Dichlorobenzene	ug/L	ND	50	50	52.3	48.6	105	97	48-137	7	20													
1,2-Dichloroethane	ug/L	ND	50	50	55.6	53.7	111	107	63-148	3	20													
1,2-Dichloropropane	ug/L	ND	50	50	52.8	50.9	106	102	70-136	4	20													
1,3,5-Trimethylbenzene	ug/L	ND	50	50	51.8	47.9	104	96	39-145	8	20													
1,3-Dichlorobenzene	ug/L	ND	50	50	53.5	49.5	107	99	40-143	8	20													
1,3-Dichloropropane	ug/L	ND	50	50	56.7	51.7	113	103	65-133	9	20													
1,4-Dichlorobenzene	ug/L	ND	50	50	51.4	47.3	103	95	38-142	8	20													
2,2-Dichloropropane	ug/L	ND	50	50	55.3	51.8	111	104	35-157	7	20													
2-Butanone (MEK)	ug/L	ND	250	250	288	275	115	110	62-132	5	20													
2-Chlorotoluene	ug/L	ND	50	50	53.7	49.0	107	98	44-143	9	20													
2-Hexanone	ug/L	ND	250	250	280	255	112	102	61-141	9	20													
4-Chlorotoluene	ug/L	ND	50	50	52.5	48.1	105	96	43-140	9	20													
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	280	261	112	105	57-135	7	20													
Acetone	ug/L	ND	250	250	297	280	119	112	30-170	6	20													
Acrolein	ug/L	ND	1000	1000	1780	1670	178	167	30-170	6	20 M0													
Acrylonitrile	ug/L	ND	1000	1000	1210	1160	121	116	66-137	4	20													

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QUALITY CONTROL DATA

Project: MI Plaza
Pace Project No.: 5039176

Parameter	Units	5039166001		MS		MSD		MS		MSD		% Rec		Max	
		Result	Spike Conc.	Spike Conc.	Result	MSD	Result	% Rec	MSD	% Rec	Limits	RPD	RPD	Qual	
Benzene	ug/L	ND	50	50	51.3	50.2	103	100	63-141	2	20				
Bromobenzene	ug/L	ND	50	50	53.1	48.9	106	98	57-128	8	20				
Bromoform	ug/L	ND	50	50	56.1	53.6	112	107	65-157	4	20				
Bromochloromethane	ug/L	ND	50	50	52.3	49.9	105	100	63-135	5	20				
Bromodichloromethane	ug/L	ND	50	50	48.3	44.3	97	89	58-124	9	20				
Bromomethane	ug/L	ND	50	50	73.5	72.4	147	145	30-170	2	20				
Carbon disulfide	ug/L	ND	100	100	94.0	94.9	94	95	46-162	1	20				
Carbon tetrachloride	ug/L	ND	50	50	51.0	49.9	102	100	54-145	2	20				
Chlorobenzene	ug/L	ND	50	50	53.7	49.4	107	99	56-133	8	20				
Chloroethane	ug/L	ND	50	50	68.9	65.7	138	131	54-157	5	20				
Chloroform	ug/L	ND	50	50	53.2	52.3	106	105	67-134	2	20				
Chloromethane	ug/L	ND	50	50	68.3	66.9	137	134	36-137	2	20				
cis-1,2-Dichloroethene	ug/L	ND	50	50	57.9	56.4	116	113	65-132	3	20				
cis-1,3-Dichloropropene	ug/L	ND	50	50	52.9	48.8	106	98	46-121	8	20				
Dibromochloromethane	ug/L	ND	50	50	52.5	47.6	105	95	64-124	10	20				
Dibromomethane	ug/L	ND	50	50	55.8	52.7	112	105	67-144	6	20				
Dichlorodifluoromethane	ug/L	ND	50	50	116	112	232	224	30-163	3	20	M0			
Ethyl methacrylate	ug/L	ND	200	200	224	209	112	104	52-140	7	20				
Ethylbenzene	ug/L	ND	50	50	53.9	50.1	108	100	44-151	7	20				
Hexachloro-1,3-butadiene	ug/L	ND	50	50	52.8	48.8	106	98	30-145	8	20				
Iodomethane	ug/L	ND	100	100	108	108	108	108	28-168	.1	20				
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.3	48.7	105	97	40-148	7	20				
Methyl-tert-butyl ether	ug/L	ND	100	100	115	111	115	111	52-156	4	20				
Methylene chloride	ug/L	ND	50	50	50.3	48.9	101	98	46-154	3	20				
n-Butylbenzene	ug/L	ND	50	50	54.4	50.3	109	101	27-153	8	20				
n-Hexane	ug/L	ND	50	50	53.5	52.2	107	104	32-176	2	20				
n-Propylbenzene	ug/L	ND	50	50	54.0	49.6	108	99	40-148	8	20				
Naphthalene	ug/L	ND	50	50	52.6	47.3	105	95	44-138	11	20				
p-Isopropyltoluene	ug/L	ND	50	50	52.8	48.8	106	98	34-146	8	20				
sec-Butylbenzene	ug/L	ND	50	50	53.1	48.6	106	97	38-150	9	20				
Styrene	ug/L	ND	50	50	52.5	48.4	105	97	38-141	8	20				
tert-Butylbenzene	ug/L	ND	50	50	42.0	38.3	84	77	32-133	9	20				
Tetrachloroethene	ug/L	ND	50	50	49.3	44.9	99	90	25-146	9	20				
Toluene	ug/L	ND	50	50	51.8	48.3	104	97	59-142	7	20				
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.6	54.0	109	108	60-137	1	20				
trans-1,3-Dichloropropene	ug/L	ND	50	50	52.9	48.3	106	97	43-117	9	20				
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	211	189	106	95	44-139	11	20				
Trichloroethene	ug/L	ND	50	50	51.9	49.6	104	99	61-137	5	20				
Trichlorofluoromethane	ug/L	ND	50	50	67.1	63.7	134	127	53-162	5	20				
Vinyl acetate	ug/L	ND	200	200	162	153	81	76	24-132	6	20				
Vinyl chloride	ug/L	ND	50	50	74.9	72.1	150	144	51-144	4	20	M0			
Xylene (Total)	ug/L	ND	150	150	158	145	105	97	44-152	9	20				
4-Bromofluorobenzene (S)	%						101	100	70-126		20				
Dibromofluoromethane (S)	%						103	108	80-123		20				
Toluene-d8 (S)	%						100	98	80-116		20				

Date: 07/22/2010 12:52 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MI Plaza
Pace Project No.: 5039176

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

- 1d Due to the high concentration of vinyl chloride a lower dilution could not be analyzed. aa 7/19/10
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza
 Pace Project No.: 5039176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5039176001	MW-170D	EPA 8260	MSV/25415		
5039176002	MW-165D	EPA 8260	MSV/25464		
5039176003	MMW-P-01	EPA 8260	MSV/25415		
5039176004	Dup	EPA 8260	MSV/25415		
5039176005	Trip Blank	EPA 8260	MSV/25415		

Date: 07/22/2010 12:52 PM

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Mandell & Associates Address: 110 S. Orange Email To: Tandy, TN 46118 Phone: 317-635-9400 Requested Due Date/TAT: 5/5		Report To: Sarah Webb Copy To: Purchase Order No.: Project Name: MT Plaza Project Number: M00046		Attention: Hopi Tribe Company Name: Address: Pace Quote Reference: Manager: John Takem Pace Profile #: Site Location: State: _____	
Section D Required Client Information		Section E SAMPLE TEMP AT COLLECTION		Section F Requested Analysis Filtered (Y/N)	
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE ITEM # 1		COLLECTED MATRIX CODES MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil WP AR TS OT Composite Start Composite End/Grab SAMPLE TYPE (G=GRAB C=COMB) (see valid codes to left)		Preservatives Na2S2O3 NaOH HCl HNO3 H2SO4 Uppreserved # OF CONTAINERS Methanol Other	
5039174 1 2 3 4 5 6 7 8 9 10 11 12		DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME		Pace Project No. / Lab ID. 001 002 003 004 005	
ANALYSIS TEST 1 2 3 4 5 6 7 8 9 10 11 12				Sample Conditions DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME	
RELINQUISHED BY / AFFILIATION Please use short list For VOC's. Sarah will confirm.		ACCEPTED BY / AFFILIATION 10:30 AM John Takem		SAMPLE CONDITIONS DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME DATE TIME	
ADDITIONAL COMMENTS ORIGINAL WT Pace Del		PRINT Name of SAMPLER: John Damrey		SIGNATURE of SAMPLER: 	
Temp in °C Received on Custody Seal/Coder (Y/N) Samples intact (Y/N)				DATE Signed (MM/DD/YY): 7/8/10	

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 5039176

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Foam

Thermometer Used 123456

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 2.2°C

Ice Visible in Sample Containers:

yes no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 04/18/10

			Comments:
Chain of Custody Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 6.
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 9.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 10.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 11.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Project Manager Review			
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 14.

Field Data Required?

Y / N

Client Notification/ Resolution:
Person Contacted: S. Webb Date/Time: 7-9-10 via email

Comments/ Resolution:

VOC - full list

7/9/10
AMS

Project Manager Review:

J. Dwyer

Date: 7/8/10

Sample Container Count

M. Unde

CLIENT:

COC PAGE 1 of 1
COC ID# 1332170

Project # 5039174

Sample Line

Item	DG9H	AG1U	WG FU R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3												
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1T	1 liter HCl amber glass	BP1U	1 liter H2SO4 amber glass	BP1Z	1 liter unpreserved plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	BP1T	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1Z	1 liter Na Thio amber vial	BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1Z	1 liter Na Thiosulfate amber gl	BP1Z	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	BP1Z	1 liter unpreserved amber vial	DG9U	40mL unpreserved amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	BP2A	500mL NaOH, Asc Acid plastic	BP2A	500mL NaOH, Asc Acid plastic	BP2A	500mL NaOH, Asc Acid plastic	BP2A	500mL NaOH, Asc Acid plastic
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac	BP2Z	500mL NaOH, Zn Ac
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3C	250mL NaOH plastic	BP3C	250mL NaOH plastic	BP3C	250mL NaOH plastic	BP3C	250mL NaOH plastic	BP3C	250mL NaOH plastic	BP3C	250mL NaOH plastic
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	VG9H	40mL HCl clear vial	VG9T	40mL Na Thio. clear vial	VG9U	40mL unpreserved clear vial	VG9U	40mL unpreserved clear vial	VG9U	40mL unpreserved clear vial	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassette	C	Air Cassette	C	Air Cassette	C	Air Cassette	C	Air Cassette	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	DG9M	40mL MeOH clear vial	DG9M	40mL MeOH clear vial	DG9M	40mL MeOH clear vial	DG9M	40mL MeOH clear vial	WGFX	4oz wide lar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag	ZPLC	Ziploc Bag



Client Name: Mundell & Associates
Contact: Sarah Webb
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 1 of 8
Lab Proj #: P1007348
Report Date: 08/02/10
Client Proj Name: Michigan Plaza
Client Proj #: M01046

Laboratory Results

Total pages in data package: 9

<u>Lab Sample #</u>	<u>Client Sample ID</u>
P1007348-01	B-1
P1007348-02	B-2
P1007348-03	B-3
P1007348-04	B-4
P1007348-05	B-5
P1007348-06	B-6
P1007348-07	B-7

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (thf) Date: 8-2-10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

Case Narrative:

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 2 of 8
 Lab Proj #: P1007348
 Report Date: 08/02/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-1	Vapor	P1007348-01		23 Jul. 10 11:27		27 Jul. 10 13:27	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10 mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	7/28/10 mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	7/28/10 mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10 mm
N Chloroform	J	0.0037	0.0050	0.0005	PPMV	AM4.02	7/28/10 mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	7/28/10 mm
N Methylene Chloride	U	< 2.0000	2.0000	0.1500	PPMV	AM4.02	7/28/10 mm
N Tetrachloroethene		0.1500	0.0100	0.0006	PPMV	AM4.02	7/28/10 mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	7/28/10 mm
N Trichloroethene	J	0.0020	0.0100	0.0008	PPMV	AM4.02	7/28/10 mm
N Vinyl Chloride	J	0.2100	1.0000	0.0400	PPMV	AM4.02	7/28/10 mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 3 of 8
 Lab Proj #: P1007348
 Report Date: 08/02/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-2	Vapor	P1007348-02		23 Jul. 10 11:05		27 Jul. 10 13:27	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
RiskAnalysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10 mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	7/28/10 mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	7/28/10 mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10 mm
N Chloroform	J	0.0022	0.0050	0.0005	PPMV	AM4.02	7/28/10 mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	7/28/10 mm
N Methylene Chloride	J	0.6800	2.0000	0.1500	PPMV	AM4.02	7/28/10 mm
N Tetrachloroethene		0.1900	0.0100	0.0006	PPMV	AM4.02	7/28/10 mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	7/28/10 mm
N Trichloroethene	J	0.0027	0.0100	0.0008	PPMV	AM4.02	7/28/10 mm
N Vinyl Chloride	J	0.1500	1.0000	0.0400	PPMV	AM4.02	7/28/10 mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 4 of 8
 Lab Proj #: P1007348
 Report Date: 08/02/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
B-3	Vapor	P1007348-03		23 Jul. 10 11:13		27 Jul. 10 13:27	
<u>Analyte(s)</u>	<u>Flag Result</u>	PQL	MDL	Units	Method #	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10 mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	7/28/10 mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	7/28/10 mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10 mm
N Chloroform	J	0.0011	0.0050	0.0005	PPMV	AM4.02	7/28/10 mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	7/28/10 mm
N Methylene Chloride	J	0.6500	2.0000	0.1500	PPMV	AM4.02	7/28/10 mm
N Tetrachloroethene		0.1200	0.0100	0.0006	PPMV	AM4.02	7/28/10 mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	7/28/10 mm
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	7/28/10 mm
N Vinyl Chloride	J	0.1300	1.0000	0.0400	PPMV	AM4.02	7/28/10 mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
Contact: Sarah Webb
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 5 of 8
Lab Proj #: P1007348
Report Date: 08/02/10
Client Proj Name: Michigan Plaza
Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>		
B-4	Vapor	P1007348-04		23 Jul. 10 11:20 ..		27 Jul. 10 13:27		
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>		
<u>RiskAnalysis</u>								
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10	mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	7/28/10	mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	7/28/10	mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/28/10	mm
N Chloroform		0.0058	0.0050	0.0005	PPMV	AM4.02	7/28/10	mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	7/28/10	mm
N Methylene Chloride	J	0.5400	2.0000	0.1500	PPMV	AM4.02	7/28/10	mm
N Tetrachloroethene	J	0.0019	0.0100	0.0006	PPMV	AM4.02	7/28/10	mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	7/28/10	mm
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	7/28/10	mm
N Vinyl Chloride	U	< 1.0000	1.0000	0.0400	PPMV	AM4.02	7/28/10	mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 6 of 8
 Lab Proj #: P1007348
 Report Date: 08/02/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

Sample Description	Matrix	Lab Sample #		Sampled Date/Time		Received		
B-5	Vapor	P1007348-05		23 Jul. 10 11:34		27 Jul. 10 13:27		
Analyte(s)	Flag Result	PQL	MDL	Units	Method #	Analysis Date	By	
Risk Analysis								
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/29/10	mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	7/29/10	mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	7/29/10	mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/29/10	mm
N Chloroform	J	0.0012	0.0050	0.0005	PPMV	AM4.02	7/29/10	mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	7/29/10	mm
N Methylene Chloride	J	0.6600	2.0000	0.1500	PPMV	AM4.02	7/29/10	mm
N Tetrachloroethene		0.0270	0.0100	0.0006	PPMV	AM4.02	7/29/10	mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	7/29/10	mm
N Trichloroethene	J	0.0016	0.0100	0.0008	PPMV	AM4.02	7/29/10	mm
N Vinyl Chloride	U	< 1.0000	1.0000	0.0400	PPMV	AM4.02	7/29/10	mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 7 of 8
 Lab Proj #: P1007348
 Report Date: 08/02/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>			<u>Sampled Date/Time</u>		<u>Received</u>
B-6	Vapor	P1007348-06			23 Jul. 10 11:42		27 Jul. 10 13:27
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
Risk Analysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/29/10 mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	7/29/10 mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	7/29/10 mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/29/10 mm
N Chloroform	J	0.0010	0.0050	0.0005	PPMV	AM4.02	7/29/10 mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	7/29/10 mm
N Methylene Chloride	J	0.7100	2.0000	0.1500	PPMV	AM4.02	7/29/10 mm
N Tetrachloroethene		0.1000	0.0100	0.0006	PPMV	AM4.02	7/29/10 mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	7/29/10 mm
N Trichloroethene	J	0.0012	0.0100	0.0008	PPMV	AM4.02	7/29/10 mm
N Vinyl Chloride	J	0.1400	1.0000	0.0400	PPMV	AM4.02	7/29/10 mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Sarah Webb
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 8 of 8
 Lab Proj #: P1007348
 Report Date: 08/02/10
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>			<u>Sampled Date/Time</u>		<u>Received</u>
B-7	Vapor	P1007348-07			23 Jul. 10 11:52		27 Jul. 10 13:27
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
RiskAnalysis							
N 1,1,1-Trichloroethane	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/29/10 mm
N 1,1-Dichloroethane	U	< 0.0200	0.0200	0.0057	PPMV	AM4.02	7/29/10 mm
N 1,1-Dichloroethene	U	< 0.0100	0.0100	0.0011	PPMV	AM4.02	7/29/10 mm
N Carbon Tetrachloride	U	< 0.0050	0.0050	0.0004	PPMV	AM4.02	7/29/10 mm
N Chloroform	J	0.0008	0.0050	0.0005	PPMV	AM4.02	7/29/10 mm
N cis-1,2-Dichloroethene	U	< 0.0200	0.0200	0.0065	PPMV	AM4.02	7/29/10 mm
N Methylene Chloride	J	0.5200	2.0000	0.1500	PPMV	AM4.02	7/29/10 mm
N Tetrachloroethene	J	0.0066	0.0100	0.0006	PPMV	AM4.02	7/29/10 mm
N trans-1,2-Dichloroethene	U	< 0.0100	0.0100	0.0039	PPMV	AM4.02	7/29/10 mm
N Trichloroethene	U	< 0.0100	0.0100	0.0008	PPMV	AM4.02	7/29/10 mm
N Vinyl Chloride	J	0.1100	1.0000	0.0400	PPMV	AM4.02	7/29/10 mm



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Report Date: July 30, 2010

Dick Griffith
Workplace Safety & Health Co.
6314 Rucker Rd., Suite F
Indianapolis, IN 46220

Phone: (317) 281-3917
Fax: (317) 253-9754
E-mail: rgriffith@workplace-safety.net

Workorder: 1020839**Project ID: Workplace Safety & Health Co.**

Purchase Order: NA

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
100723-01	1020839001	07/23/10	07/27/10	Michigan Plaza



Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: 1020839

Sample ID: 100723-01	Matrix: Air	Collected: 7/23/2010
Lab ID: 1020839001	Media: Summa 6 Liter Canister	Received: 7/27/2010
Sampling Site: Michigan Plaza	Sampling Parameter: Air Volume 6 L	

Analysis Method - EPA TO-15

Preparation:	Not Applicable			Analysis: EPA TO-15, Air	Instr ID: 5972-W
Analyte	ppb	ug/m ³	MDL	Batch: IVOA/1422 (HBN: 51667)	Percent Solids: NA
Vinyl chloride	200	500	1.9	10	20
cis-1,2-Dichloroethene	12000	49000	3.7	10	20
Trichloroethene	5000	27000	1.2	10	20
Tetrachloroethene	8100	55000	1.8	10	20

Report Authorization**Analysis Method - EPA TO-15**

Lisa M. Reid	Thomas J. Masoian
Analyst	Peer Review

Laboratory Contact Information

Phone: (801) 266-7700
 Email: alsit.lab@alsglobal.com
 Web: www.datachem.com

ALS Laboratory Group (formerly DataChem Laboratories, Inc.)
 960 W Levoy Drive
 Salt Lake City, Utah 84123

General Lab Comments

The results provided in this report relate only to the items tested.
 Samples were received in acceptable condition unless otherwise noted.
 Samples have not been blank corrected unless otherwise noted.
 This test report shall not be reproduced, except in full, without written approval of ALS.

ALS is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at <http://health.utah.gov/lab/labimp/labcert/envlabcert.html>. The quality systems implemented in the laboratory apply to all methods performed by ALS regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.

RL = Reporting Limit, a verified value of method/media/instrument sensitivity.

CRDL = Contract Required Detection Limit

Reg. Limit = Regulatory Limit.

ND = Not Detected, testing result not detected above the MDL or RL.

< This testing result is less than the numerical value.

** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.

J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

B = Qualifier indicates that the analyte was detected in the blank.

E = Qualifier indicates that the analyte result exceeds calibration range.

P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1020839

Limits: Method

Basis: ALS Laboratory Group

Preparation: NA

Batch: NA

Prepared By: NA

Analysis: EPA TO-15

Batch: IVOA/1422 (HBN: 51667)

Analyzed By: Lisa M. Reid

Blank

MB:	171993				
Analyzed:	07/27/2010 13:22				
Units:	ppb				
Analyte	Result	MDL	RL		
Vinyl chloride	ND	0.0926	0.5		
cis-1,2-Dichloroethene	ND	0.185	0.5		
Trichloroethene	ND	0.0602	0.5		
Tetrachloroethene	ND	0.0906	0.5		

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS:	171991						LCSD:	171992				
Analyzed:	07/27/2010 11:38						Analyzed:	07/27/2010 12:13				
Units:	ppb											
Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits				
Vinyl chloride	10.7	10	107	70	130	10.6	0.693	0	25			
cis-1,2-Dichloroethene	10.8	10	108	70	130	10.4	4.06	0	25			
Trichloroethene	10.4	10	104	70	130	10.3	0.685	0	25			
Tetrachloroethene	9.37	10	93.7	70	130	9.65	2.94	0	25			

Surrogate Recoveries

Surrogate	Bromofluorobenzene		
QC Limits	65 135		
Units	ppb		
Lab ID	Result	Target	% Recovery
171991-LCS	20.1	20	101
171992-LCSD	18.9	20	94.7
1020712001	19.8	20	99.2
1020712002	19.3	20	96.7
1020712003	19.6	20	98.2
1020726001	19.8	20	98.9
1020726002	20.1	20	100
1020821001	19.9	20	99.3
1020821002	18.9	20	94.7
1020821003	19.2	20	96
1020821004	18.9	20	94.3
1020822001	19.6	20	98.1
1020822002	19.5	20	97.6
1020837001	18.1	20	90.6

Symbols and Definitions

* - See Comments section for more information

▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)

ND - Not Detected

QC results are not adjusted for moisture correction, where applicable.

Analysis Information

Workorder: 1020839

Limits: Method
 Basis: ALS Laboratory Group

Preparation: NA
 Batch: NA
 Prepared By: NA

Analysis: EPA TO-15
 Batch: IVOA/1422 (HBN: 51667)
 Analyzed By: Lisa M. Reid

Surrogate Recoveries

Surrogate	Bromofluorobenzene		
QC Limits	65	135	
Units	ppb		
Lab ID	Result	Target	% Recovery
1020837002	18.1	20	90.5
1020837003	18.9	20	94.4
1020837004	18.3	20	91.4
1020839001	18.6	20	93

Comments

None

QC Data Approved and Reviewed by

Lisa M. Reid

Analyst

Thomas J. Masoian

Peer Review

7/30/2010

Date

Symbols and Definitions

- * - See Comments section for more information
- ▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)

ND - Not Detected

QC results are not adjusted for moisture correction, where applicable.

APPENDIX B

Air Mitigation Systems: Pounds of Contaminants Removed

Air Mitigation System - Historical Air Analytical Results													
Michigan Plaza Indianapolis, Indiana MUNDELL Project No.: M01046													
Sample Date	Perchloroethylene (PCE)												
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)				
9/21/2006	0.6300	0.7900	0.6700	0.2800	0.0043	0.0054	0.0046	0.0019	4281.48	5368.84	4553.32	1902.88	
10/6/2006	0.8800	0.6700	0.9700	0.3100	0.0060	0.0046	0.0066	0.0021	5980.48	4553.32	6592.12	2106.76	
10/13/2006	0.6800	0.3600	0.5200	0.2100	0.0046	0.0024	0.0035	0.0014	4621.28	2446.56	3533.92	1427.16	
10/20/2006	0.8700	0.5500	0.8900	0.2200	0.0059	0.0037	0.0060	0.0015	5912.52	3737.80	6048.44	1495.12	
11/17/2006	0.8100	0.4700	0.7800	0.1500	0.0055	0.0032	0.0053	0.0010	5504.76	3194.12	5300.88	1019.40	
12/27/2006	0.7400	0.4700	0.7500	0.1100	0.0050	0.0032	0.0051	0.0007	5029.04	3194.12	5097.00	747.56	
3/30/2007	0.5100	0.1800	0.5700	0.0310	0.0035	0.0012	0.0039	0.0002	3465.96	1223.28	3873.72	210.68	
6/15/2007	0.0050	0.3100	0.2100	0.4600	0.0000	0.0021	0.0014	0.0031	33.98	2106.76	1427.16	3126.16	
10/16/2007	0.3900	0.2400	0.2800	0.0670	0.0027	0.0016	0.0019	0.0005	2650.44	1631.04	1902.88	455.33	
12/14/2007	0.5800	0.3400	0.5200	0.1400	0.0039	0.0023	0.0035	0.0010	3941.68	2310.64	3533.92	951.44	
3/27/2008	0.5500	NS	0.5600	0.0740	0.0037	NS	0.0038	0.0005	3737.80	NS	3805.76	502.90	
4/1/2008	NS	0.3600	NS	NS	NS	0.0024	NS	NS	2446.56	NS	NS	NS	
6/2/2008	0.7200	0.5600	0.4900	0.1000	0.0049	0.0038	0.0033	0.0007	4893.12	3805.76	3330.04	679.60	
9/12/2008	0.4800	0.4700	0.5300	0.1300	0.0033	0.0032	0.0036	0.0009	3262.08	3194.12	3601.88	883.48	
11/26/2008	0.4600	NS	0.3600	0.1100	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56	
3/24/2009	0.4500	NS	0.5500	0.0050	0.0031	NS	0.0037	0.0000	3058.20	NS	3737.80	33.98	
6/15/2009	0.4300	NS	0.4200	0.0200	0.0029	NS	0.0029	0.0001	2922.28	NS	2854.32	135.92	
8/21/2009	0.3600	0.1600	0.4700	0.0140	0.0024	0.0011	0.0032	0.0001	2446.56	1087.36	3194.12	95.14	
11/5/2009	0.3300	0.1400	0.4100	0.0050	0.0022	0.0010	0.0028	0.0000	2242.68	951.44	2786.36	33.98	
2/5/2010	0.1600	0.0370	0.1400	0.0120	0.0011	0.0003	0.0010	0.0001	1087.36	251.45	951.44	81.55	
4/23/2010	0.1300	NS	NS	0.0170	0.0009	NS	NS	0.0001	883.48	NS	NS	115.53	
5/6/2010	NS	0.1500	0.2500	NS	NS	0.0010	0.0017	NS	NS	1019.40	1699.00	NS	
7/23/2010	0.1500	0.1900	0.1200	0.0050	0.0010	0.0013	0.0008	0.0000	1019.40	1291.24	815.52	33.98	

NS = Not sampled

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results													
Sample Date	Trichloroethylene (TCE)												
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)				
9/21/2006	0.0240	0.0120	0.0050	0.0050	0.0001	0.0001	0.0000	0.0000	129.24	64.62	26.93	26.93	
10/6/2006	0.0120	0.0050	0.0050	0.0050	0.0001	0.0000	0.0000	0.0000	64.62	26.93	26.93	26.93	
10/13/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
10/20/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
11/17/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
12/27/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
3/30/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
6/15/2007	0.4600	0.0050	0.0050	0.0050	0.0025	0.0000	0.0000	0.0000	2,477.10	26.93	26.93	26.93	
10/16/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
12/14/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
3/27/2008	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93	
4/1/2008	NS	0.0050	NS	NS	0.0000	NS	NS	NS	26.93	NS	NS	NS	
6/2/2008	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
9/12/2008	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
11/26/2008	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93	
3/24/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93	
6/15/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93	
8/21/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
11/5/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
2/5/2010	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	
4/23/2010	0.0050	NS	NS	0.0050	0.0000	NS	NS	0.0000	26.93	NS	NS	26.93	
5/6/2010	NS	0.0050	0.0050	NS	NS	0.0000	0.0000	NS	NS	26.93	26.93	NS	
7/23/2010	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93	

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results													
Michigan Plaza													
Indianapolis, Indiana													
MUNDELL Project No.: M01046													
Sample Date	Vinyl Chloride												
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)				
9/21/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
10/6/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
10/13/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
10/20/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
11/17/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
12/27/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
3/30/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
6/15/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
10/16/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
12/14/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
3/27/2008	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42	
4/1/2008	NS	0.0150	NS	NS	NS	0.0000	NS	NS	NS	38.42	NS	NS	
6/2/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
9/12/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
11/26/2008	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42	
3/24/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42	
6/15/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42	
8/21/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
11/5/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
2/5/2010	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	
4/23/2010	0.0150	NS	NS	0.0150	0.0000	NS	NS	0.0000	38.42	NS	NS	38.42	
5/6/2010	NS	0.0150	0.0150	NS	NS	0.0000	0.0000	NS	NS	38.42	38.42	NS	
7/23/2010	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42	

NS = Not sampled

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results													
Michigan Plaza													
Indianapolis, Indiana													
MUNDELL Project No.: M01046													
Sample Date	cis-1,2-Dichloroethylene												
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	
	(ppmv)				(ppm)				($\mu\text{g}/\text{m}^3$)				
9/21/2006	0.1400	0.0100	0.0100	0.0100	0.0006	0.0000	0.0000	0.0000	556.22	39.73	39.73	39.73	
10/6/2006	0.0300	0.0100	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	119.19	39.73	39.73	39.73	
10/13/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
10/20/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
11/17/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
12/27/2006	0.0240	0.0100	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	95.35	39.73	39.73	39.73	
3/30/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
6/15/2007	0.2100	0.0100	0.0100	0.0100	0.0008	0.0000	0.0000	0.0000	834.33	39.73	39.73	39.73	
10/16/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
12/14/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
3/27/2008	0.0340	NS	0.0100	0.0100	0.0001	NS	0.0000	0.0000	135.08	NS	39.73	39.73	
4/1/2008	NS	0.0100	NS	NS	NS	0.0000	NS	NS	NS	39.73	NS	NS	
6/2/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
9/12/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
11/26/2008	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73	
3/24/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73	
6/15/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73	
8/21/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
11/5/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
2/5/2010	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	
4/23/2010	0.0100	NS	NS	0.0100	0.0000	NS	NS	0.0000	39.73	NS	NS	39.73	
5/6/2010	NS	0.0100	0.0100	NS	NS	0.0000	0.0000	NS	NS	39.73	39.73	NS	
7/23/2010	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73	

NS = Not sampled

italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Air Mitigation System - Historical Air Analytical Results									
Sample Date	Michigan Meadows Apartments Indianapolis, Indiana MUNDELL Project No.: M01046								
	Perchloroethylene (PCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.1300	1.2000	NS	0.0009	0.0082	NS	883.48	8155.20	NS
3/28/2008	0.0730	0.4900	NS	0.0005	0.0033	NS	496.11	3330.04	NS
4/7/2008	NS	NS	0.0760	NS	NS	0.0005	NS	NS	516.50
4/8/2008	NS	NS	0.0470	NS	NS	0.0003	NS	NS	319.41
4/24/2008	0.0540	0.1100	0.0220	0.0004	0.0007	0.0001	366.98	747.56	149.51
5/1/2008	0.0580	0.2100	0.0390	0.0004	0.0014	0.0003	394.17	1427.16	265.04
6/2/2008	0.0590	0.2200	0.0530	0.0004	0.0015	0.0004	400.96	1495.12	360.19
7/10/2008	0.0650	NS	0.0540	0.0004	NS	0.0004	441.74	NS	366.98
8/20/2008	NS	0.2700	NS	NS	0.0018	NS	NS	1834.92	NS
9/12/2008	0.0690	0.1800	0.0540	0.0005	0.0012	0.0004	468.92	1223.28	366.98
11/26/2008	0.0720	0.1100	0.0560	0.0005	0.0007	0.0004	489.31	747.56	380.58
3/24/2009	0.2100	0.1300	0.0590	0.0014	0.0009	0.0004	1427.16	883.48	400.96
6/15/2009	0.0580	0.0840	<i>0.0050</i>	0.0004	0.0006	0.0000	394.17	570.86	33.98
8/21/2009	0.0630	0.0710	<i>0.0050</i>	0.0004	0.0005	0.0000	428.15	482.52	33.98
11/5/2009	0.1300	0.1100	<i>0.0050</i>	0.0009	0.0007	0.0000	883.48	747.56	33.98
2/5/2010	0.0220	0.0800	<i>0.0150</i>	0.0001	0.0005	0.0001	149.51	543.68	101.94
2/6/2010	0.0220	0.0800	<i>0.0150</i>	0.0001	0.0005	0.0001	149.51	543.68	101.94
4/23/2010	0.0120	NS	<i>0.0050</i>	0.0001	NS	0.0000	81.55	NS	33.98
5/12/2010	NS	0.1300	NS	NS	0.0009	NS	NS	883.48	NS
7/23/2010	0.0270	0.1000	<i>0.0050</i>	0.0002	0.0007	0.0000	183.49	679.60	33.98

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results									
Michigan Meadows Apartments									
Indianapolis, Indiana									
MUNDELL Project No.: M01046									
Sample Date	Trichloroethylene (TCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.0050	0.0050	NS	0.0000	0.0000	NS	26.93	26.93	NS
3/28/2008	0.0050	0.0050	NS	0.0000	0.0000	NS	26.93	26.93	NS
4/7/2008	NS	NS	0.0050	NS	NS	0.0000	NS	NS	26.93
4/8/2008	NS	NS	0.0050	NS	NS	0.0000	NS	NS	26.93
4/24/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
5/1/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
6/2/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
7/10/2008	0.0050	NS	0.0050	0.0000	NS	0.0000	26.93	NS	26.93
8/20/2008	NS	0.0050	NS	NS	0.0000	NS	NS	26.93	NS
9/12/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
11/26/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
3/24/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
6/15/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
2/5/2010	0.0050	0.0011	0.0050	0.0000	0.0000	0.0000	26.93	5.92	26.93
2/6/2010	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
4/23/2010	0.0050	NS	0.0050	0.0000	NS	0.0000	26.93	NS	26.93
5/12/2010	NS	0.0050	NS	NS	0.0000	NS	NS	26.93	NS
7/23/2010	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results									
Sample Date	Michigan Meadows Apartments Indianapolis, Indiana MUNDELL Project No.: M01046								
	Vinyl Chloride								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.0150	0.0150	NS	0.0000	0.0000	NS	38.42	38.42	NS
3/28/2008	0.0150	0.0150	NS	0.0000	0.0000	NS	38.42	38.42	NS
4/7/2008	NS	NS	0.0150	NS	NS	0.0000	NS	NS	38.42
4/8/2008	NS	NS	0.0150	NS	NS	0.0000	NS	NS	38.42
4/24/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
5/1/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
6/2/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
7/10/2008	0.0150	NS	0.0150	0.0000	NS	0.0000	38.42	NS	38.42
8/20/2008	NS	0.0150	NS	NS	0.0000	NS	NS	38.42	NS
9/12/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
11/26/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
3/24/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
6/15/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
2/6/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
4/23/2010	0.0150	NS	0.0150	0.0000	NS	0.0000	38.42	NS	38.42
5/12/2010	NS	0.0150	NS	NS	0.0000	NS	NS	38.42	NS
7/23/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results Michigan Meadows Apartments Indianapolis, Indiana MUNDELL Project No.: M01046									
Sample Date	cis-1,2-Dichloroethylene								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu\text{g}/\text{m}^3$)		
3/27/2008	0.0100	0.0100	NS	0.0000	0.0000	NS	39.73	39.73	NS
3/28/2008	0.0100	0.0100	NS	0.0000	0.0000	NS	39.73	39.73	NS
4/7/2008	NS	NS	0.0100	NS	NS	0.0000	NS	NS	39.73
4/8/2008	NS	NS	0.0100	NS	NS	0.0000	NS	NS	39.73
4/24/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
5/1/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
6/2/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
7/10/2008	0.0100	NS	0.0100	0.0000	NS	0.0000	39.73	NS	39.73
8/20/2008	NS	0.0100	NS	NS	0.0000	NS	NS	39.73	NS
9/12/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
11/26/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
3/24/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
6/15/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
2/6/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
4/23/2010	0.0100	NS	0.0100	0.0000	NS	0.0000	39.73	NS	39.73
5/12/2010	NS	0.0100	NS	NS	0.0000	NS	NS	39.73	NS
7/23/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.015ppmv, the mean detected concentration below reporting limits.

Cumulative Total LBS Removed
Third Quarter 2010
7/23/2010 & 9/1/10
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-7)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
3/28/2008	0.04	43.21	0.04	46.87
4/1/2008	1.20	44.41	1.25	48.12
4/7/2008	0.00	44.41	0.00	48.12
4/8/2008	0.00	44.41	0.00	48.12
4/24/2008	0.34	44.75	0.42	48.54
5/1/2008	0.16	44.91	0.18	48.72
6/2/2008	6.93	51.84	7.26	55.98
7/10/2008	0.32	52.16	0.40	56.39
8/20/2008	1.56	53.72	1.65	58.04
9/12/2008	9.53	63.25	10.05	68.09
11/26/2008	5.60	68.85	6.08	74.17
3/24/2009	11.10	79.94	11.87	86.03
6/15/2009	5.42	85.37	5.97	92.00
8/21/2009	4.59	89.95	5.05	97.05
11/5/2009	5.26	95.22	5.79	102.84
2/5/2010	2.54	97.76	3.05	105.89
4/23/2010	0.62	98.38	0.85	106.74
7/23/2010	2.48	100.86	2.97	109.71

Michigan Plaza
Third Quarter 2010
7/23/2010 & 9/1/10
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-4)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
4/1/2008	1.20	44.36	1.25	48.07
6/2/2008	6.16	50.53	6.39	54.46
9/12/2008	8.69	59.22	9.05	63.51
11/26/2008	4.38	63.59	4.62	68.13
3/24/2009	7.64	71.24	8.02	76.15
6/15/2009	4.53	75.77	4.80	80.94
8/21/2009	3.90	79.67	4.14	85.08
11/5/2009	3.90	83.57	4.17	89.25
2/5/2010	1.77	85.35	1.98	91.23
4/23/2010	0.45	85.80	0.51	91.74
7/23/2010	1.55	87.34	1.72	93.46

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Cumulative Totals (B-5-B-7)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.00	0.00	0.00	0.00
3/28/2008	0.04	0.04	0.04	0.05
4/7/2008	0.00	0.04	0.00	0.05
4/8/2008	0.00	0.05	0.00	0.05
4/24/2008	0.34	0.39	0.42	0.47
5/1/2008	0.16	0.54	0.18	0.65
6/2/2008	0.77	1.31	0.87	1.52
7/10/2008	0.32	1.63	0.40	1.93
8/20/2008	1.56	3.19	1.65	3.58
9/12/2008	0.84	4.03	1.00	4.58
11/26/2008	1.22	5.25	1.46	6.04
3/24/2009	3.45	8.71	3.85	9.89
6/15/2009	0.89	9.60	1.17	11.06
8/21/2009	0.68	10.28	0.91	11.97
11/5/2009	1.40	11.67	1.75	13.71
2/5/2010	0.87	12.54	1.27	14.99
4/23/2010	0.17	12.71	0.34	15.33
7/23/2010	0.94	13.65	1.25	16.58

Lab Data for Air Mitigation System B-1
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B-1 (Lab Data)													B-1 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed (ug/m³)	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	73	2,190	4,281	0.00	129	0.00	38	0.00	556	0.00	0.00	0.00	0.00	9/21/2006	0.5	73	2,190	4.9	10,439	0.00	0.00
10/6/2006	360	73	1,576,800	5,980	0.59	65	0.01	38	0.00	119	0.01	0.61	0.59	0.61	9/28/2006	168	73	735,840	1.9	4,841	0.22	0.22
10/13/2006	168	73	735,840	4,621	0.21	27	0.00	38	0.00	40	0.00	0.22	0.80	0.83	10/6/2006	192	73	840,960	1.0	3,162	0.17	0.39
10/20/2006	168	73	735,840	5,913	0.27	27	0.00	38	0.00	40	0.00	0.28	1.07	1.10	10/13/2006	168	73	735,840	0.6	2,322	0.11	0.50
11/17/2006	672	73	2,943,360	5,505	1.01	27	0.00	38	0.01	40	0.01	1.03	2.08	2.13	10/20/2006	168	73	735,840	0.3	1,902	0.09	0.58
12/27/2006	960	73	4,204,800	5,029	1.32	27	0.01	38	0.01	95	0.03	1.36	3.40	3.50	11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.86
3/30/2007	2,232	73	9,776,160	3,466	2.11	27	0.02	38	0.02	40	0.02	2.18	5.52	5.67	12/27/2006	960	73	4,204,800	0.0	1,296	0.34	1.20
6/15/2007	1,848	73	8,094,240	34	0.02	2,477	1.25	38	0.02	834	0.42	1.71	5.53	7.38	6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.85
10/16/2007	2,952	73	12,929,760	2,650	2.14	27	0.02	38	0.03	40	0.03	2.22	7.67	9.60	10/16/2007	2,952	73	12,929,760	0.1	1,483	1.20	4.04
12/14/2007	1,416	73	6,202,080	3,942	1.52	27	0.01	38	0.01	40	0.02	1.57	9.20	11.17	12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.62
3/27/2008	2,496	73	10,932,480	3,738	2.55	27	0.02	38	0.03	135	0.09	2.69	11.74	13.86	3/27/2008	2,496	73	10,932,480	1.7	4,468	3.05	7.66
6/2/2008	1,608	73	7,043,040	4,893	2.15	27	0.01	38	0.02	40	0.02	2.20	13.89	16.05	6/2/2008	1,608	73	7,043,040	2.2	5,401	2.37	10.04
9/12/2008	2,448	73	10,722,240	3,262	2.18	27	0.02	38	0.03	40	0.03	2.25	16.08	18.30	9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.28
11/26/2008	1,800	73	7,884,000	3,126	1.54	27	0.01	38	0.02	40	0.02	1.59	17.61	19.89	11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.01
3/24/2009	2,832	73	12,404,160	3,058	2.37	27	0.02	38	0.03	40	0.03	2.45	19.98	22.34	3/24/2009	2,832	73	12,404,160	0.2	1,669	1.29	13.30
6/15/2009	1,992	73	8,724,960	2,922	1.59	27	0.01	38	0.02	40	0.02	1.65	21.57	23.99	6/15/2009	1,992	73	8,724,960	0.2	1,669	0.91	14.21
8/21/2009	1,608	73	7,043,040	2,447	1.07	27	0.01	38	0.02	40	0.02	1.12	22.65	25.11	8/21/2009	1,608	73	7,043,040	0.2	1,669	0.73	14.94
11/5/2009	1,824	73	7,989,120	2,243	1.12	27	0.01	38	0.02	40	0.02	1.17	23.76	26.28	11/5/2009	1,824	73	7,989,120	0.2	1,669	0.83	15.77
2/5/2010	2,208	73	9,671,040	1,087	0.66	27	0.02	38	0.02	40	0.02	0.72	24.42	27.00	2/5/2010	2,208	73	9,671,040	2.3	5,588	3.37	19.14
4/23/2010	1,848	74	8,205,120	883	0.45	27	0.01	38	0.02	40	0.02	0.51	24.87	27.50	5/6/2010	2,160	74	9,590,400	3.3	7,454	4.46	23.60
7/23/2010	2,184	55	7,207,200	1,019	0.46	27	0.01	38	0.02	40	0.02	0.51	25.33	28.01	9/1/2010	2,832	55	9,345,600	1.9	4,841	2.82	26.43
TOTALS:	33,625		145,027,470		25.33		1.48		0.35		0.85		28.01		TOTALS:	34,585		148,551,150		26.43		

Lab Data for Air Mitigation System B-2
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B-2 (Lab Data)													B-2 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	37	1,110	5,369	0.00	65	0.00	38	0.00	40	0.00	0.00	0.00	0.00	9/21/2006	0.5	37	1,110	2.0	5,028	0.00	0.00
10/6/2006	360	37	799,200	4,553	0.23	27	0.00	38	0.00	40	0.00	0.23	0.23	0.23	9/28/2006	168	37	372,960	2.0	5,028	0.12	0.12
10/13/2006	168	37	372,960	2,447	0.06	27	0.00	38	0.00	40	0.00	0.06	0.28	0.29	10/6/2006	192	37	426,240	1.1	3,255	0.09	0.20
10/20/2006	168	37	372,960	3,738	0.09	27	0.00	38	0.00	40	0.00	0.09	0.37	0.38	10/13/2006	168	37	372,960	0.6	2,369	0.06	0.26
11/17/2006	672	37	1,491,840	3,194	0.30	27	0.00	38	0.00	40	0.00	0.31	0.67	0.69	10/20/2006	168	37	372,960	0.3	1,926	0.04	0.30
12/27/2006	960	37	2,131,200	3,194	0.42	27	0.00	38	0.01	40	0.01	0.44	1.09	1.13	11/17/2006	672	37	1,491,840	0.1	1,483	0.14	0.44
3/30/2007	2,232	38	5,088,960	1,223	0.39	27	0.01	38	0.01	40	0.01	0.42	1.48	1.55	12/27/2006	960	37	2,131,200	0.1	1,483	0.20	0.64
6/15/2007	1,848	42	4,656,960	2,107	0.61	27	0.01	38	0.01	40	0.01	0.64	2.09	2.19	6/15/2007	4,080	41	10,036,800	0.1	1,483	0.93	1.57
10/16/2007	2,952	48	8,501,760	1,631	0.86	27	0.01	38	0.02	40	0.02	0.92	2.96	3.11	10/16/2007	2,952	48	8,501,760	0.1	1,483	0.79	2.35
12/14/2007	1,416	53	4,502,880	2,311	0.65	27	0.01	38	0.01	40	0.01	0.68	3.61	3.79	12/14/2007	1,416	53	4,502,880	0.1	1,483	0.42	2.77
4/1/2008	2,616	50	7,848,000	2,447	1.20	27	0.01	38	0.02	40	0.02	1.25	4.81	5.04	6/2/2008	4,104	46.5	11,450,160	1.5	4,095	2.92	5.69
6/2/2008	1,488	42	3,705,120	3,806	0.88	27	0.01	38	0.01	40	0.01	0.90	5.68	5.94	9/12/2008	2,448	37	5,434,560	0.5	2,229	0.76	6.45
9/12/2008	2,448	37	5,434,560	3,194	1.08	27	0.01	38	0.01	40	0.01	1.12	6.77	7.06	11/5/2009	1,440	37	3,196,800	0.1	1,483	0.30	6.75
8/21/2009	1,440	37	3,196,800	1,087	0.22	27	0.01	38	0.01	40	0.01	0.24	6.98	7.30	2/5/2010	2,208	37	4,901,760	0.6	2,416	0.74	7.48
11/5/2009	1,824	37	4,049,280	951	0.24	27	0.01	38	0.01	40	0.01	0.27	7.22	7.57	5/6/2010	2,160	37	4,795,200	1.4	3,908	1.17	8.65
2/5/2010	2,208	37	4,901,760	251	0.08	27	0.01	38	0.01	40	0.01	0.11	7.30	7.68	9/1/2010	2,832	37	6,287,040	3.0	6,894	2.70	11.36
5/6/2010	2,160	37	4,795,200	1,019	0.30	27	0.01	38	0.01	40	0.01	0.34	7.61	8.01	TOTALS:	25,969		64,276,230		11.36		
7/23/2010	1,872	37	4,155,840	1,291	0.33	27	0.01	38	0.01	40	0.01	0.36	7.94	8.37								
TOTALS:	26,833		66,006,390		7.94		0.11		0.16		0.16		8.37									

Lab Data for Air Mitigation System B-3

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Michigan Plaza

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B-3 (Lab Data)													B-3 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	9/21/2006	0.5	132	3,960	1.8	4,655	0.00	0.00
10/6/2006	360	132	2,851,200	6,592	1.17	27	0.00	38	0.01	40	0.01	1.19	1.17	1.19	9/28/2006	168	132	1,330,560	2.2	5,401	0.45	0.45
10/13/2006	168	132	1,330,560	3,534	0.29	27	0.00	38	0.00	40	0.00	0.30	1.47	1.49	10/6/2006	192	132	1,520,640	2.1	5,215	0.49	0.94
10/20/2006	168	132	1,330,560	6,048	0.50	27	0.00	38	0.00	40	0.00	0.51	1.97	2.01	10/13/2006	168	132	1,330,560	2.1	5,121	0.43	1.37
11/17/2006	672	132	5,322,240	5,301	1.76	27	0.01	38	0.01	40	0.01	1.79	3.73	3.80	10/20/2006	168	132	1,330,560	2.0	5,075	0.42	1.79
12/27/2006	960	132	7,603,200	5,097	2.42	27	0.01	38	0.02	40	0.02	2.47	6.15	6.27	11/17/2006	672	132	5,322,240	2.0	5,028	1.67	3.46
3/30/2007	2,232	132	17,677,440	3,874	4.27	27	0.03	38	0.04	40	0.04	4.39	10.42	10.65	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	4.16
6/15/2007	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	40	0.04	1.40	11.72	12.05	6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	7.15
10/16/2007	2,952	132	23,379,840	1,903	2.78	27	0.04	38	0.06	40	0.06	2.93	14.50	14.98	10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	9.31
12/14/2007	1,416	132	11,214,720	3,534	2.47	27	0.02	38	0.03	40	0.03	2.55	16.97	17.53	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	10.35
3/27/2008	2,496	132	19,768,320	3,806	4.69	27	0.03	38	0.05	40	0.05	4.82	21.66	22.35	3/27/2008	2,496	132	19,768,320	1.3	3,722	4.59	14.94
6/2/2008	1,608	132	12,735,360	3,330	2.65	27	0.02	38	0.03	40	0.03	2.73	24.31	25.08	6/2/2008	1,608	132	12,735,360	1.2	3,535	2.81	17.75
9/12/2008	2,448	132	19,388,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	28.66	29.56	9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	20.44
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	30.84	31.83	11/26/2008	1,800	132	14,256,000	0.4	2,042	1.82	22.26
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	36.07	37.21	3/24/2009	2,832	132	22,429,440	0.6	2,416	3.38	25.64
6/15/2009	1,992	132	15,776,640	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	38.88	40.12	6/15/2009	1,992	132	15,776,640	0.6	2,416	2.38	28.02
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	41.41	42.74	8/31/2009	1,848	132	14,636,160	0.6	2,416	2.21	30.22
11/5/2009	1,824	132	14,446,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	43.93	45.35	11/5/2009	1,584	132	12,545,280	0.6	2,416	1.89	32.11
2/5/2010	2,208	132	17,487,360	951.44	1.04	26.93	0.03	38	0.04	40	0.04	1.15	44.96	46.50	2/5/2010	2,208	132	17,487,360	1.5	4,095	4.47	36.58
5/6/2010	2,160	132	17,107,200	1,699	1.81	27	0.03	38	0.04	40	0.04	1.93	46.78	48.42	5/6/2010	2,160	152	19,699,200	1.7	4,468	5.49	42.07
7/23/2010	1,872	132	14,826,240	816	0.75	27	0.02	38	0.04	40	0.04	0.85	47.53	49.28	9/1/2010	NS	NS	NS	NS	NS	NS	NS
TOTALS:	33,625		266,306,040	47.53	0.45		0.64		0.66	49.28					TOTALS:	31,753		254,071,800		42.07		

Lab Data for Air Mitigation System B-4

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Michigan Plaza

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Indianapolis, Indiana

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B-4 (Lab Data)													B-4 (PID Readings)									
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
9/21/2006	0.5	132	3,960	1,903	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	9/21/2006	0.5	132	3,960	0.2	1,669	0.00	0.00
10/6/2006	360	132	2,851,200	2,107	0.37	27	0.00	38	0.01	40	0.01	0.39	0.38	0.39	9/28/2006	168	132	1,330,560	0.4	2,042	0.17	0.17
10/13/2006	168	132	1,330,560	1,427	0.12	27	0.00	38	0.00	40	0.00	0.13	0.49	0.52	10/6/2006	192	132	1,520,640	0.3	1,763	0.17	0.34
10/20/2006	168	132	1,330,560	1,495	0.12	27	0.00	38	0.00	40	0.00	0.13	0.62	0.65	10/13/2006	168	132	1,330,560	0.2	1,623	0.13	0.47
11/17/2006	672	132	5,322,240	1,019	0.34	27	0.01	38	0.01	40	0.01	0.37	0.96	1.03	10/20/2006	168	132	1,330,560	0.1	1,553	0.13	0.60
12/27/2006	960	132	7,603,200	748	0.35	27	0.01	38	0.02	40	0.02	0.40	1.31	1.43	11/17/2006	672	132	5,322,240	0.1	1,483	0.49	1.09
3/30/2007	2,232	130	17,342,640	211	0.23	27	0.03	38	0.04	40	0.04	0.34	1.54	1.77	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.80
6/15/2007	1,848	125	13,887,720	3,126	2.71	27	0.02	38	0.03	40	0.03	2.80	4.25	4.57	6/15/2007	4,080	127.75	31,273,200	0.1	1,483	2.89	4.69
10/16/2007	2,952	128	22,627,080	455	0.64	27	0.04	38	0.05	40	0.06	0.79	4.89	5.36	10/16/2007	2,952	128	22,671,360	0.1	1,483	2.10	6.78
12/14/2007	1,416	132	11,214,720	951	0.67	27	0.02	38	0.03	40	0.03	0.74	5.56	6.10	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.82
3/27/2008	2,496	128	19,094,400	503	0.60	27	0.03	38	0.05	40	0.05	0.72	6.15	6.83	3/29/2008	2,544	128	19,537,920	1.8	4,655	5.67	13.50
6/2/2008	1,608	119	11,481,120	680	0.49	27	0.02	38	0.03	40	0.03	0.56	6.64	7.39	6/2/2008	1,560	119	11,138,400	0.3	1,856	1.29	14.78
9/12/2008	2,448	132	19,388,160	883	1.07	27	0.03	38	0.05	40	0.05	1.20	7.71	8.58	9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.25
11/26/2008	1,800	132	14,256,000	748	0.66	27	0.02	38	0.03	40	0.04	0.76	8.37	9.34	11/26/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.57
3/24/2009	2,832	132	22,429,440	34	0.05	27	0.04	38	0.05	40	0.06	0.19	8.42	9.54	3/24/2009	2,832	132	22,429,440	0.3	1,763	2.47	21.04
6/15/2009	1,992	132	15,776,640	136	0.13	27	0.03	38	0.04	40	0.04	0.24	8.56	9.77	6/15/2009	1,992	132	15,776,640	0.3	1,856	1.83	22.87
8/21/2009	1,608	132	12,735,360	95	0.08	27	0.02	38	0.03	40	0.03	0.16	8.63	9.93	8/31/2009	1,848	132	14,636,160	0.3	1,856	1.69	24.56
11/5/2009	1,824	132	14,446,080	34	0.03	27	0.02	38	0.03	40	0.04	0.13	8.66	10.06	11/5/2009	1,584	132	12,545,280	0.3	1,856	1.45	26.01
2/5/2010	2,208	132	17,487,360	82	0.09	27	0.03	38	0.04	40	0.04	0.20	8.75	10.26	2/5/2010	2,208	132	17,487,360	0.6	2,416	2.64	28.65
4/23/2010	1,848	132	14,636,160	116	0.11	27	0.02	38	0.04	40	0.04	0.20	8.86	10.46	5/6/2010	2,160	132	17,107,200	0.6	2,416	2.58	31.22
7/23/2010	2,184	115	15,069,600	34	0.03	27	0.03	38	0.04	40	0.04	0.13	8.89	10.59	9/1/2010	2,832	115	19,540,800	0.3	1,856	2.26	33.49
TOTALS:	33,625		260,314,200		8.89		0.44		0.62		0.65		10.59		TOTALS:	34,585		267,444,360		33.49		

Lab Data for Air Mitigation System B-5

Third Quarter 2010

7/23/2010 & 9/1/10

Michigan Plaza

3801-3823 West Michigan Street

Indianapolis, Indiana

MUNDELL Project No.: M01046

B-5 (Lab Data)														B-5 (PID Readings)								
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
3/27/2008	0.5	130	3,900	883	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	3/29/2008	50	119	357,000	0.1	1,483	0.03	0.03
3/28/2008	24	127	182,880	496	0.01	27	0.00	38	0.00	40	0.00	0.01	0.01	0.01	3/31/2008	48	118	339,840	0.2	1,669	0.04	0.07
4/24/2008	648	120	4,665,600	367	0.11	27	0.01	38	0.01	40	0.01	0.14	0.11	0.14	5/1/2008	744	116	5,178,240	0.1	1,483	0.48	0.55
5/1/2008	168	115	1,159,200	394	0.03	27	0.00	38	0.00	40	0.00	0.04	0.14	0.18	6/2/2008	768	114	5,253,120	0.2	1,669	0.55	1.09
6/2/2008	768	114	5,253,120	401	0.13	27	0.01	38	0.01	40	0.01	0.17	0.27	0.35	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.64
7/10/2008	912	115	6,292,800	442	0.17	27	0.01	38	0.02	40	0.02	0.21	0.45	0.56	11/26/2008	1,800	113	12,204,000	0.1	1,483	1.13	3.77
9/12/2008	1,536	114	10,506,240	469	0.31	27	0.02	38	0.03	40	0.03	0.38	0.75	0.94	3/24/2009	2,832	122	20,730,240	0.1	1,483	1.92	5.69
11/26/2008	1,800	113	12,204,000	489	0.37	27	0.02	38	0.03	40	0.03	0.45	1.13	1.39	6/15/2009	1,992	122	14,581,440	0.1	1,483	1.35	7.04
3/24/2009	2,832	122	20,730,240	1,427	1.85	27	0.03	38	0.05	40	0.05	1.98	2.97	3.37	8/31/2009	1,848	122	13,527,360	0.1	1,483	1.25	8.29
6/15/2009	1,992	122	14,581,440	394	0.36	27	0.02	38	0.03	40	0.04	0.45	3.33	3.83	11/5/2009	1,584	122	11,594,880	0.1	1,483	1.07	9.36
8/21/2009	1,608	122	11,770,560	428	0.31	27	0.02	38	0.03	40	0.03	0.39	3.64	4.22	2/5/2010	2,208	122	16,162,560	0.5	2,229	2.25	11.61
11/5/2009	1,824	122	13,351,680	883	0.74	27	0.02	38	0.03	40	0.03	0.82	4.38	5.04	5/6/2010	2,160	110	14,256,000	1.4	3,908	3.48	15.08
2/5/2010	2,208	122	16,162,560	150	0.15	26.93	0.03	38	0.04	40	0.04	0.26	4.53	5.30	9/1/2010	2,832	115	19,540,800	0.3	1,856	2.26	17.35
4/23/2010	1,848	110	12,196,800	82	0.06	27	0.02	38	0.03	40	0.03	0.14	4.59	5.44	TOTALS:	21,314		150,469,800			17.35	
7/23/2010	2,184	115	15,069,600	183	0.17	27	0.03	38	0.04	40	0.04	0.27	4.77	5.71								
TOTALS:	20,353		144,130,620		4.77		0.24		0.35		0.36		5.71									

Lab Data for Air Mitigation System B-6

Third Quarter 2010

7/23/2010 & 9/1/10

Michigan Plaza

3801-3823 West Michigan Street

Indianapolis, Indiana

MUNDELL Project No.: M01046

B-6 (Lab Data)														B-6 (PID Readings)								
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
3/27/2008	0.5	130	3,900	8,155	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	3/29/2008	50	110	330,000	1.7	4,468	0.09	0.09
3/28/2008	24	119	171,144	3,330	0.04	27	0.00	38	0.00	40	0.00	0.04	0.04	0.04	3/31/2008	48	111	319,680	0.1	1,483	0.03	0.12
4/24/2008	648	114	4,426,488	748	0.21	27	0.01	38	0.01	40	0.01	0.24	0.24	0.27	5/1/2008	744	118	5,267,520	0.3	1,856	0.61	0.73
5/1/2008	168	123	1,234,800	1,427	0.11	27	0.00	38	0.00	40	0.00	0.12	0.35	0.39	6/2/2008	768	120	5,529,600	1.1	3,349	1.16	1.89
6/2/2008	768	120	5,506,560	1,495	0.51	27	0.01	38	0.01	40	0.01	0.55	0.87	0.94	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	3.43
8/20/2008	1,896	120	13,651,200	1,835	1.56	27	0.02	38	0.03	40	0.03	1.65	2.43	2.59	11/26/2008	1,800	114	12,312,000	0.2	1,669	1.28	4.72
9/12/2008	552	114	3,775,680	1,223	0.29	27	0.01	38	0.01	40	0.01	0.31	2.72	2.91	3/24/2009	2,832	118	20,050,560	0.3	1,856	2.32	7.04
11/26/2008	1,800	112	12,096,000	748	0.56	27	0.02	38	0.03	40	0.03	0.64	3.28	3.55	6/15/2009	1,992	118	14,103,360	0.3	1,856	1.63	8.67
3/24/2009	2,832	118	20,050,560	883	1.10	27	0.03	38	0.05	40	0.05	1.24	4.39	4.79	8/31/2009	1,848	118	13,083,840	0.3	1,856	1.51	10.19
6/15/2009	1,992	118	14,103,360	571	0.50	27	0.02	38	0.03	40	0.03	0.59	4.89	5.38	11/5/2009	1,584	118	11,214,720	0.3	1,856	1.30	11.48
8/21/2009	1,608	118	11,384,640	483	0.34	27	0.02	38	0.03	40	0.03	0.42	5.23	5.80	2/5/2010	2,208	118	15,632,640	0.9	2,975	2.90	14.38
11/5/2009	1,824	118	12,913,920	748	0.60	27	0.02	38	0.03	40	0.03	0.69	5.83	6.49	5/12/2010	2,304	93	12,856,320	1.7	4,468	3.58	17.97
2/5/2010	2,208	118	15,632,640	544	0.53	6	0.01	38	0.04	40	0.04	0.61	6.36	7.10	9/1/2010	2,688	132	21,288,960	0.6	2,416	3.21	21.18
4/23/2010	1,848	93	10,311,840	NS	0.00	NS	0.00	NS	0.00	NS	0.00	0.00	6.36	7.10	TOTALS:	21,314		148,733,520		21.18		
7/23/2010	2,184	132	17,297,280	680	0.73	27	0.03	38	0.04	40	0.04	0.85	7.10	7.94								
TOTALS:	20,353		142,560,012		7.10		0.20		0.32		0.33		7.94									

Lab Data for Air Mitigation System B-7

Third Quarter 2010
7/23/2010 & 9/1/10

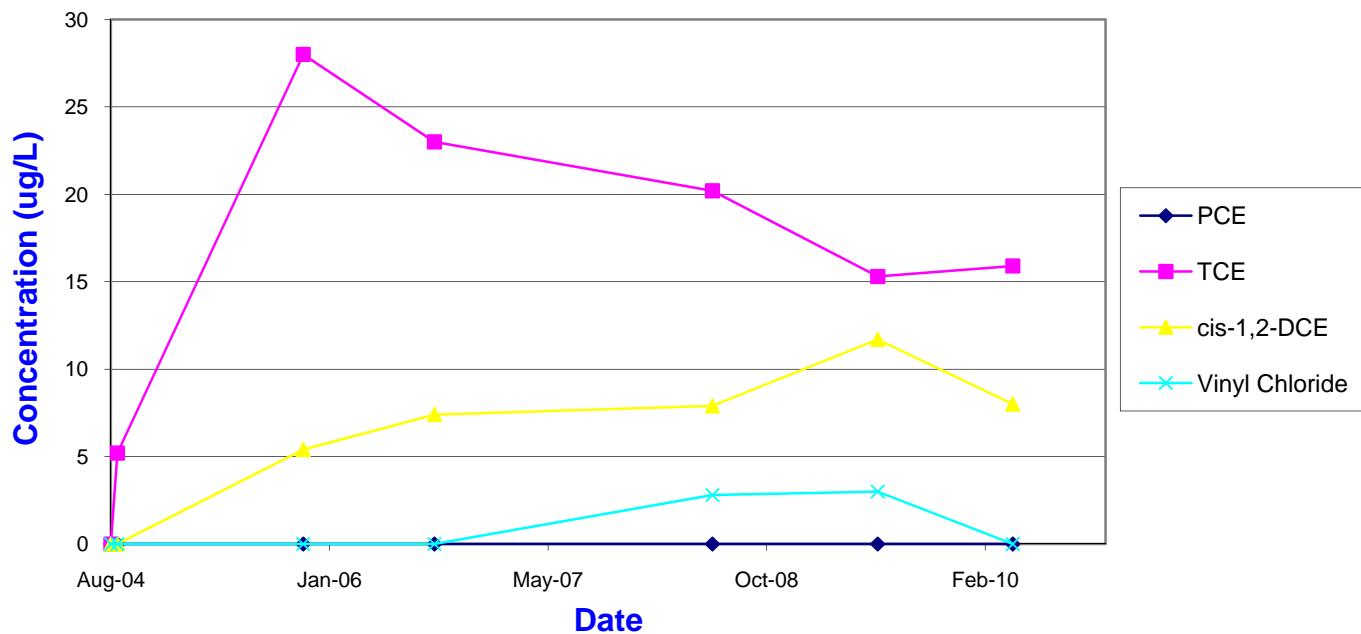
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-7 (Lab Data)														B-7 (PID Readings)								
Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m³ PCE	Lbs. PCE removed	µg/m³ TCE	Lbs. TCE removed	µg/m³ VC	Lbs. VC removed	µg/m³ cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed	Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m³ VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
4/7/2008	0.5	118	3,540	516	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	5/1/2008	576	120	4,147,200	0.1	1,483	0.38	0.38
4/8/2008	24	118	169,920	319	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00	6/2/2008	768	117	5,391,360	0.3	1,856	0.62	1.01
4/24/2008	384	118	2,718,720	150	0.03	27	0.00	38	0.01	40	0.01	0.04	0.03	0.05	9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.56
5/1/2008	168	120	1,209,600	265	0.02	27	0.00	38	0.00	40	0.00	0.03	0.05	0.08	11/26/2008	1,800	112	12,096,000	0.2	1,669	1.26	3.82
6/2/2008	768	117	5,391,360	360	0.12	27	0.01	38	0.01	40	0.01	0.16	0.17	0.23	3/24/2009	2,832	118	20,050,560	0.3	1,856	2.32	6.14
7/10/2008	912	118	6,456,960	367	0.15	27	0.01	38	0.02	40	0.02	0.19	0.32	0.42	6/15/2009	1,992	118	14,103,360	0.3	1,856	1.63	7.77
9/12/2008	1,536	114	10,506,240	367	0.24	27	0.02	38	0.03	40	0.03	0.31	0.56	0.73	8/31/2009	1,848	118	13,083,840	0.3	1,856	1.51	9.28
11/26/2008	1,800	112	12,096,000	381	0.29	27	0.02	38	0.03	40	0.03	0.37	0.85	1.10	11/5/2009	1,584	118	11,214,720	0.3	1,856	1.30	10.58
3/24/2009	2,832	118	20,050,560	401	0.50	27	0.03	38	0.05	40	0.05	0.63	1.35	1.73	2/5/2010	2,208	118	15,632,640	0.1	1,483	1.45	12.03
6/15/2009	1,992	118	14,103,360	34	0.03	27	0.02	38	0.03	40	0.03	0.12	1.38	1.85	5/6/2010	2,160	130	16,848,000	0.3	1,856	1.95	13.98
8/21/2009	1,608	118	11,384,640	34	0.02	27	0.02	38	0.03	40	0.03	0.10	1.40	1.95	9/1/2010	2,832	152	25,827,840	0.0	1,296	2.09	16.07
11/5/2009	1,824	118	12,913,920	34	0.03	27	0.02	38	0.03	40	0.03	0.11	1.43	2.06	TOTALS:	21,048		155,139,840			16.07	
2/5/2010	2,208	118	15,632,640	102	0.10	27	0.03	38	0.04	40	0.04	0.20	1.53	2.27								
4/23/2010	1,848	118	13,083,840	34	0.03	27	0.02	38	0.03	40	0.03	0.11	1.56	2.38								
7/23/2010	2,184	152	19,918,080	34	0.04	27	0.03	38	0.05	40	0.05	0.17	1.60	2.55								
TOTALS:	20,089		145,639,380		1.60		0.24		0.35		0.36		2.55									

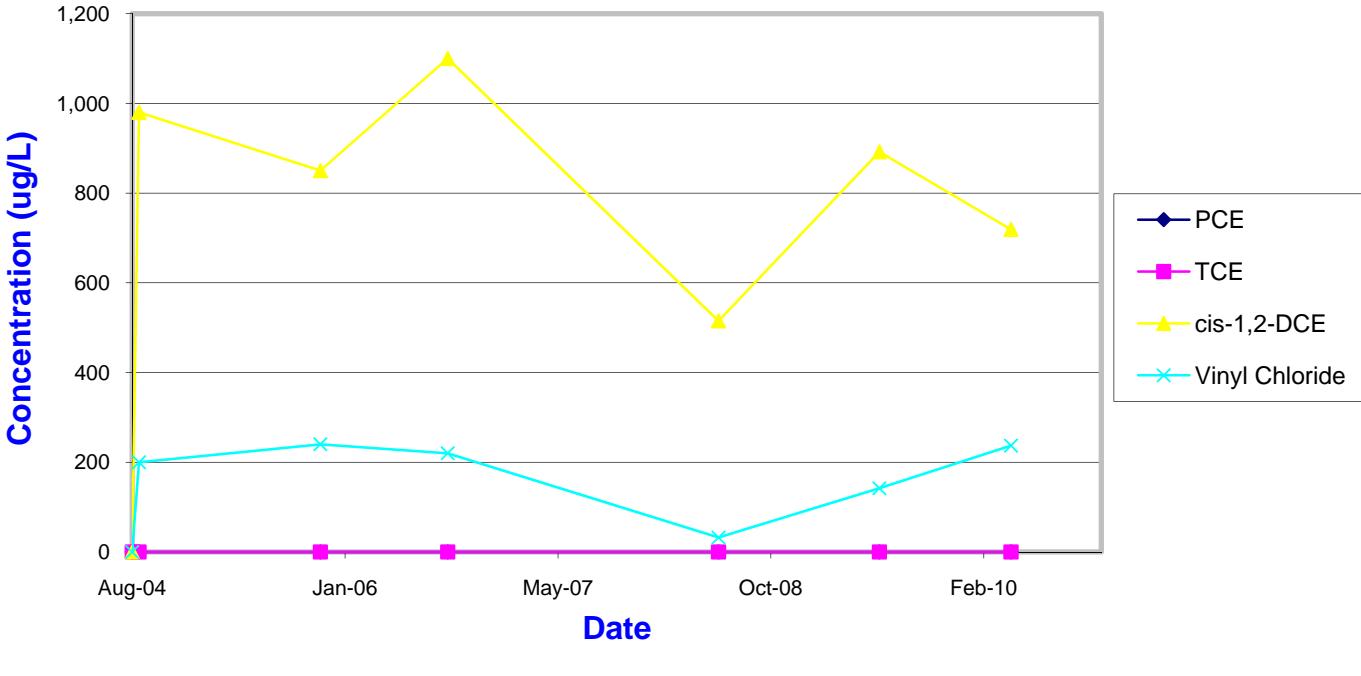
APPENDIX C

Indicator Compound Trends at the Northern Wells

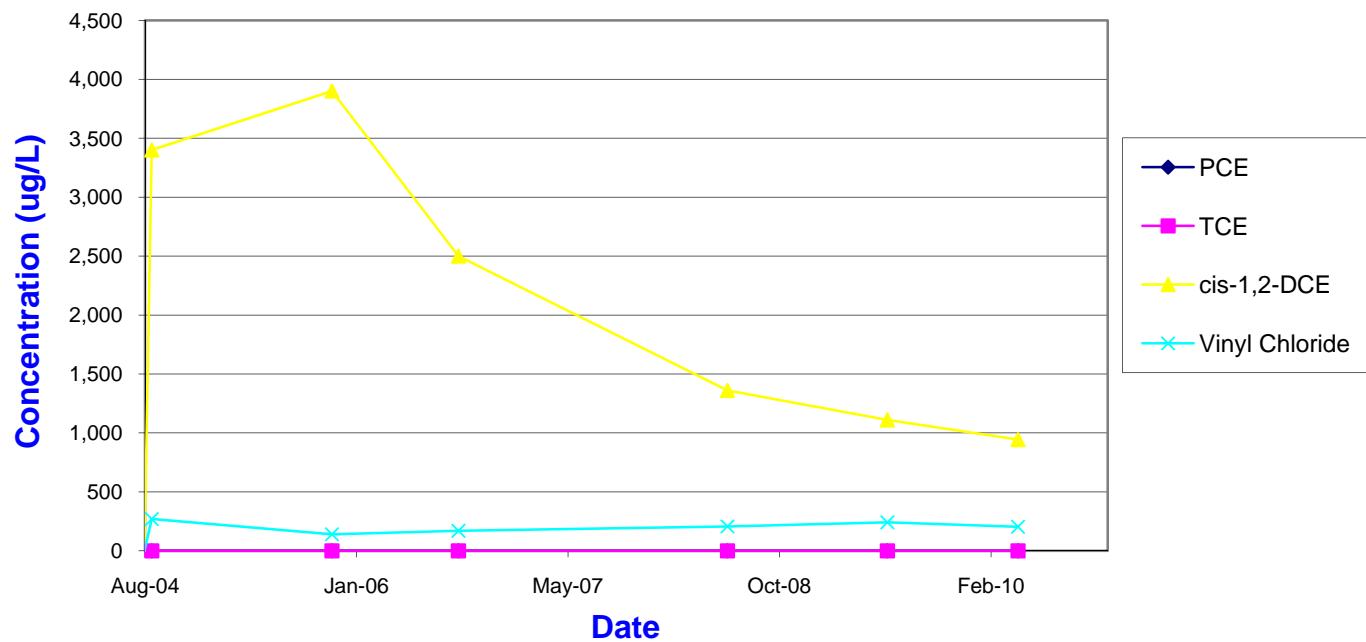
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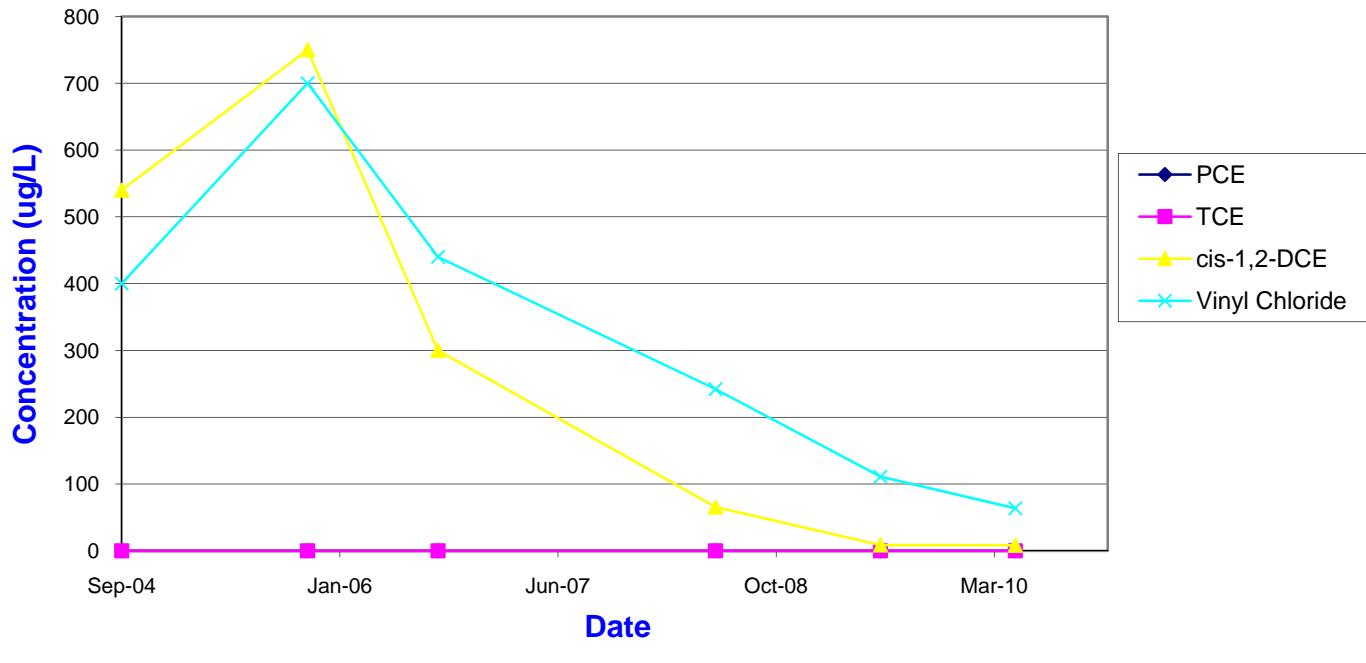
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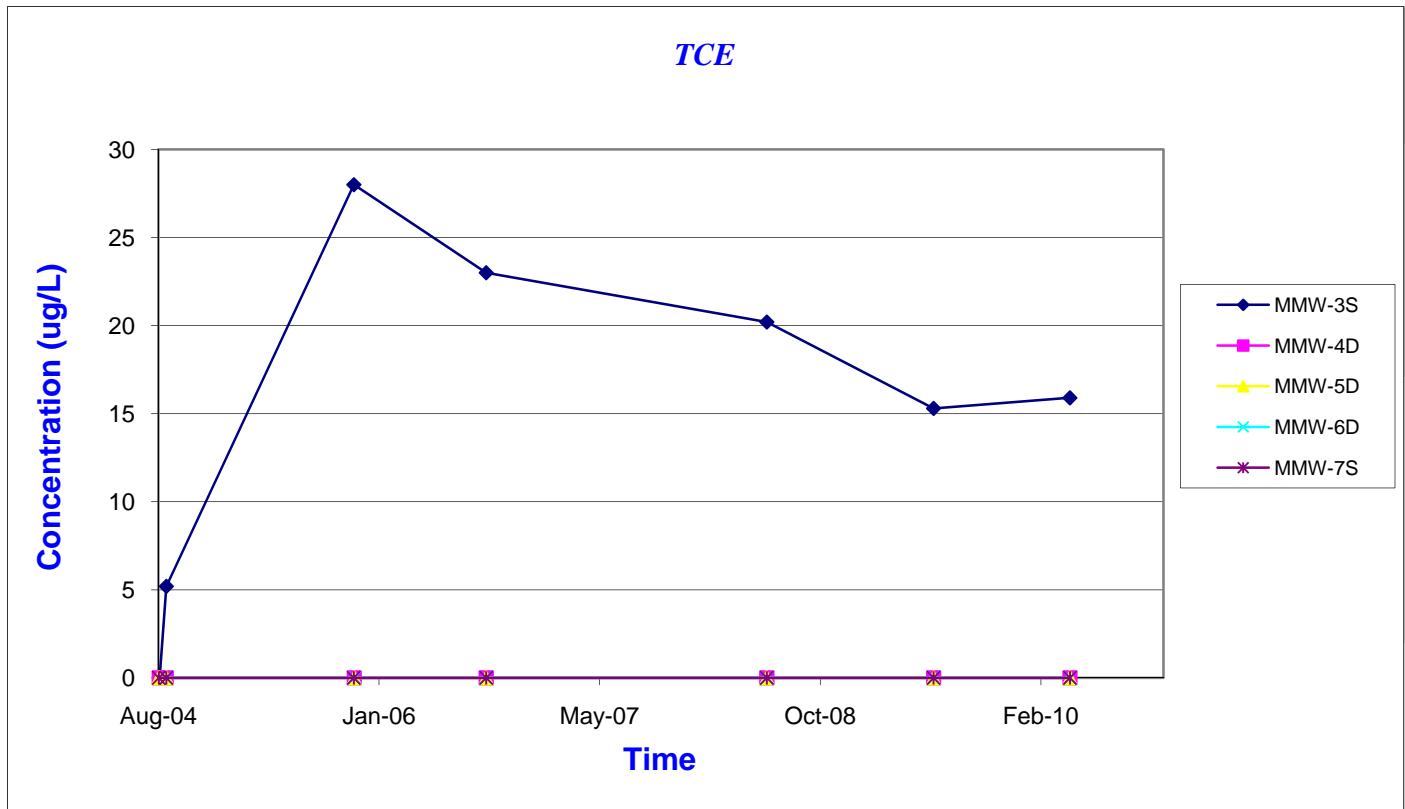
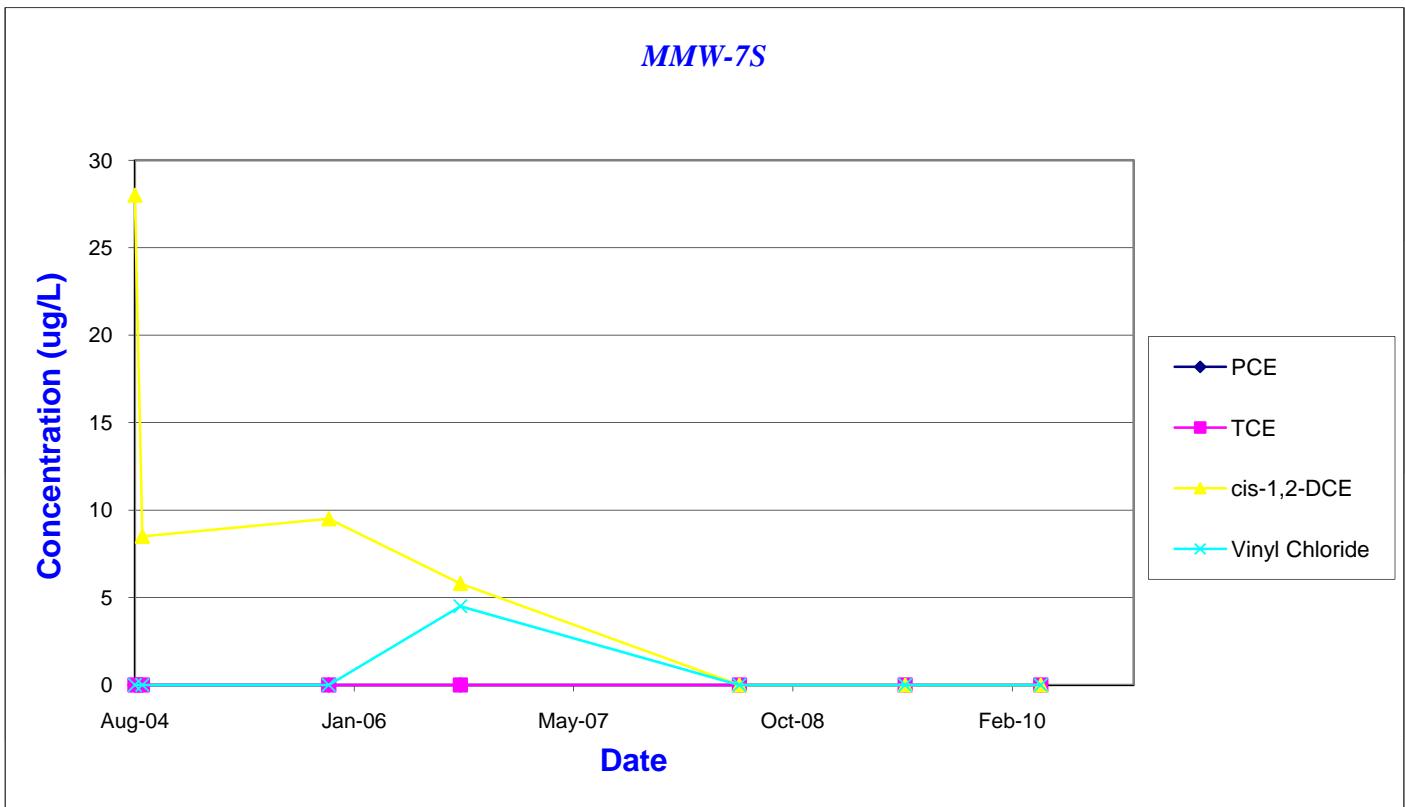


MMW-5D

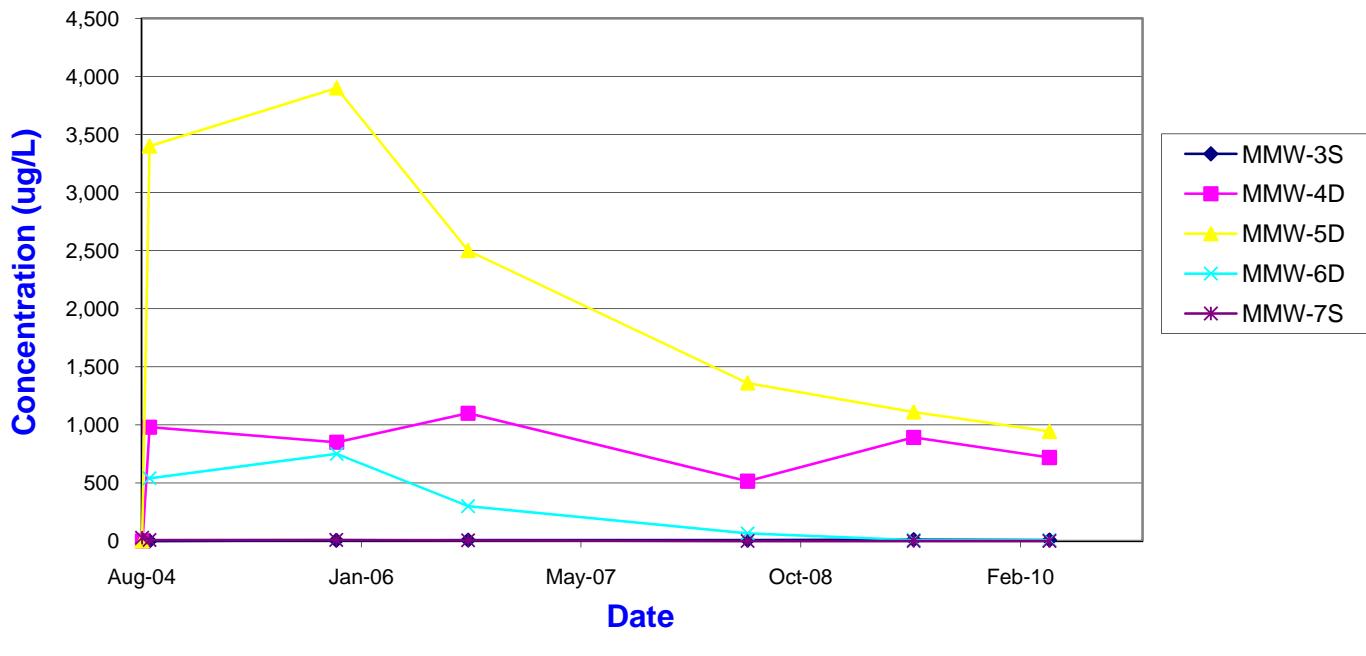


MMW-6D





cis-1,2-DCE



Vinyl Chloride

